

# CANADIAN PROFILE

1992



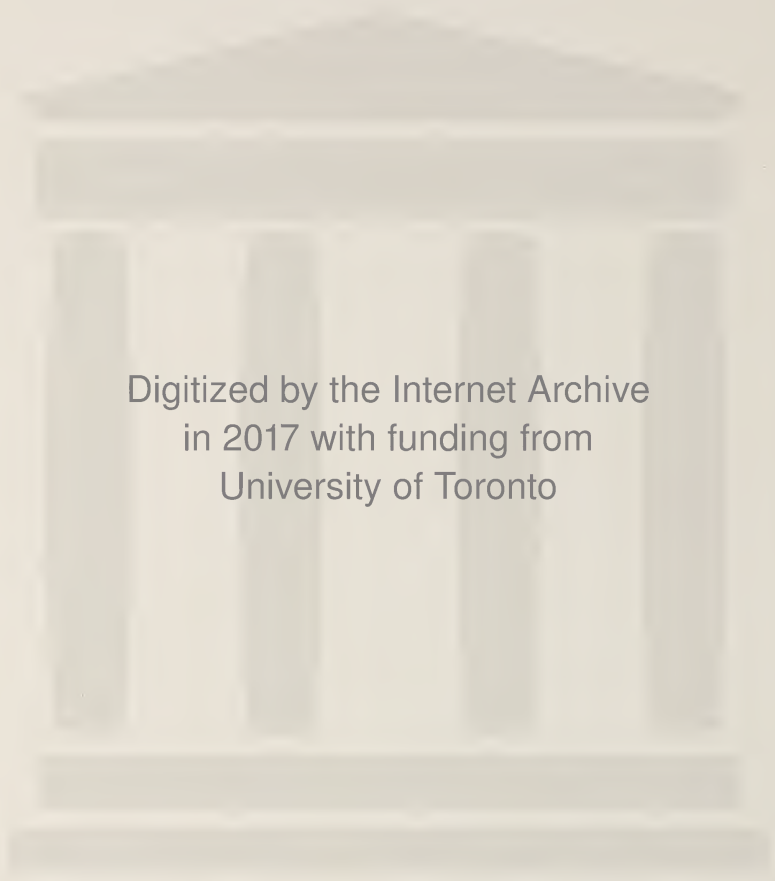
## Alcohol & other drugs

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# **CANADIAN PROFILE**

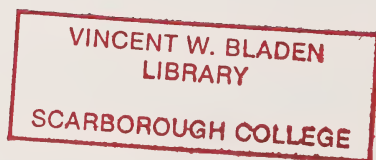
## **Alcohol & other drugs**

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ISSN 0715-7659  
ISBN 0-88868-194-1 Canadian Profile, 1992  
ISBN 0-88868-193-3 Ontario Profile, 1992

Printed in Canada.

## Previous Reports in this Series

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**STATISTICAL SUPPLEMENT TO THE ANNUAL REPORT 1977-78** (Toronto: Alcoholism and Drug Addiction Research Foundation, 1979). Out-of-print.

**STATISTICAL SUPPLEMENT TO THE ANNUAL REPORT 1978-79** (Toronto: Alcoholism and Drug Addiction Research Foundation, 1980). Out-of-print.

**STATISTICAL SUPPLEMENT TO THE ANNUAL REPORT 1979-80** (Toronto: Alcoholism and Drug Addiction Research Foundation, 1981). Out-of-print.

**STATISTICS ON ALCOHOL AND DRUG USE IN CANADA AND OTHER COUNTRIES, Data Available by August 1982** (Toronto: Alcoholism and Drug Addiction Research Foundation, 1983). Out-of-print.

**STATISTICS ON ALCOHOL AND DRUG USE IN CANADA AND OTHER COUNTRIES - VOLUME I: STATISTICS ON ALCOHOL USE, Data Available by September 1984** (Toronto: Alcoholism and Drug Addiction Research Foundation, 1985). Out-of-print.

**STATISTICS ON ALCOHOL AND DRUG USE IN CANADA AND OTHER COUNTRIES - VOLUME II: STATISTICS ON DRUG USE, Data Available by September 1984** (Toronto: Alcoholism and Drug Addiction Research Foundation, 1985). Out-of-print.

**STATISTICS ON ALCOHOL AND DRUG USE IN CANADA AND OTHER COUNTRIES - VOLUME I: STATISTICS ON ALCOHOL USE, Data Available by 1988** (Toronto: Alcoholism and Drug Addiction Research Foundation 1989). Out-of-print.

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Ontario Profile, 1992**

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## Preface

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Over the years the Addiction Research Foundation has had to meet a growing demand for statistical information on the prevalence of substance abuse and its associated problems. While a wide diversity of data is routinely collected in Canada, it is often not published and certainly not contained in a single data source.

The Statistical Information Service was created to facilitate the compilation and dissemination of this data so that researchers, policy makers, planners and the other interested groups would have access to the most current information available. What originally started in 1978 under the title **Statistical Supplement to the Annual Report of the Addiction Research Foundation** has evolved, first into the series entitled **Statistics on Alcohol and Other Drug Use in Canada and Other Countries** and now, with this first issue, the **Canadian Profile - Alcohol and Other Drugs, 1992**.

As the title suggests this volume contains both alcohol and other drug related statistical data for Canada and the provinces. (An associated publication **Ontario Profile - Alcohol and Other Drugs, 1992** contains county data for Ontario.) While no single publication could possibly include all of the data that is available on substance abuse, the **Canadian Profile** is the most comprehensive and up-to-date compilation of provincial data in Canada. Data in this report have been compiled from a variety of sources (available by October 1991) and while they have been verified to eliminate errors any limitations that existed in the original data will be repeated in this volume.

Finally, the last page is a survey regarding this publication and its contents. Readers are encouraged to spend the time to fill this out or to contact the Statistical Information Service directly with any comments or suggestions that can make this a more useful and comprehensive publication.

## Acknowledgements

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While this compilation has benefitted from the assistance and suggestions of many individuals, special thanks are due to: Margy Chan, Director Information Service Department and Chris Stanley, Manager Public Information Services for their encouragement and patience; members of the advisory committee for their comments and suggestions; Iona Noah, Toronto District Health Council for comments during the early planning stages; Theresa Williams for typing and collating of draft versions; all the individuals in Marketing, Creative Services and Printing who provided their assistance in putting this publication together; and finally, to all the individuals and agencies who have made their data available to us for compiling.



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# Key To Symbols

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**	high sampling variability (Chapters A and B only)
"..."	data suppressed in original source (Chapters A and B only)
"."	zero or nil value
".."	figures too small to be expressed
"n.a."	figures not available

Percentages may not add up to 100% due to rounding.

Data contained in this publication is either for calendar or fiscal years. In all cases, fiscal year data is for the 12 month period beginning April 1 of the year specified to March 31 of the following year (ie. 19887-88 covers the period April 1, 1987 to March 31, 1988).

Many of the sources used in compiling this publication contain data for multiple years (often incorporating revisions), as a result it may appear that data for earlier years is not referenced.

# Introduction

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## Overview

This report, **Canadian Profile - Alcohol and Other Drugs, 1992** is intended to provide a general overview of recent trends regarding alcohol and other drug use and attendant problems in Canada. It presents data from a wide variety of sources and subjects areas including:

- survey results;
- sales data;
- legal statistics;
- hospital separations (both general and psychiatric); and
- mortality.

It is hoped that this publication will aid, in conjunction with other sources of information, in establishing a more complete understanding of the extent of substance abuse in Canada.

The sourcebook is composed of fifteen chapters and two appendices. Each chapter is a self-contained unit providing tables and a brief summary of the information contained in the tables. Where possible alcohol-related data is followed by corresponding information for drugs. Charts and graphs have been used to aid in highlighting certain aspects of each subject covered in the report. Each chapter summary also includes a short section of explanatory notes including definitions and some of the caveats associate with the data source that has been employed.

Following each summary are the actual tables. Where possible the data have been presented by province and sex, as well as by age and sex for Canada (data unavailability and space limitations prevents inclusion of age-sex information for all provinces). In addition to the actual numbers, corresponding rates per 100,000 population have also been calculated as a method of standardizing the data to allow limited comparisons between provinces.

Aside from providing the population estimates that have been used in this report, Appendix A discusses the rationale for the use of rates and how they are calculated.

Appendix B formally outlines the medical conditions and diagnostic categories that have been used for purposes of establishing morbidity and mortality counts. Also included are a brief note outlining the Uniform Crime Reporting system and the Jellinek Formula for estimating the number of alcoholics.

## **The Data**

Users of this publication are reminded that no single number or statistic can provide a complete picture of the extent of substance use or problems related to consumption. All of the data sources are subject to limitations. The motivation behind a compilation of this nature is to provide access to a vast abundance of data from different sources, representing alternative measures of consumption and problems.

For example, the results from the National Alcohol and Other Drugs Survey in Chapter A provide information about drinking patterns and demographics. Surveys however, are limited by sample size and our own conscious or unconscious underestimation of alcohol usage. Estimates derived from sales data are subject to the constraints imposed by the conversion factors that have been employed in their calculation and provide no information regarding drinker characteristics or drinking behaviour.

Beyond actual characteristics of drinkers, information is required concerning other patterns of behaviour or problems. Morbidity, mortality, and legal data provide measures of consequences and social or health complications resulting from the use of alcohol or drugs and are no less subject to limitations.

Consider morbidity data. This includes information regarding patients that were admitted to hospitals and treated primarily for specific alcohol or drug disorders. Not included are patients with other specific problems that may have been related to substance abuse. Nor is there an indicator of how many emergency room or doctor visits may be linked to problems resulting from substance abuse.

Similarly, legal data is subject to changes in police detection, enforcement patterns and methods. Hence, changes may not represent a change in prevalence of usage but a change in importance society has placed on that particular problem. In this case data for a number of years may be needed to provide a general indication of trends, free from year to year variations. In addition, only the most serious offence is actually counted, thus the occurrence of lesser offences may be under represented.

## **Data Comparability**

The final note concerns comparisons of data across provinces. Most of the data in this report result from administrative data collection systems. As an example, morbidity data is derived from actual patient records, while legal statistics are ultimately based on reports filed by individual police departments. Differences can occur as a result different definitions employed or different interpretations regarding the reporting systems. This is particularly noticeable with legal statistics.

Consider marijuana usage and offences. Results from the National Alcohol and Other Drugs Survey suggest that usage of marijuana is about the same in Quebec and Ontario. However, crime data indicates that the rate of marijuana offences in Ontario is much higher than the level reported in Quebec. This difference is more likely a result of

differences in enforcement or reporting, than any actual difference in marijuana availability or usage. Using the same example, while there is a big difference in the rate of offences, both provinces have exhibited a downward trend over the period 1983 to 1990. So while the level of enforcement is different, the overall trend is seen to be the same.

So although direct comparisons between provinces in any single year are not always appropriate, the underlying trends that the data reveal may allow reliable comparisons.

## **Conclusion**

While the data is less-than-perfect, it is nevertheless commonly used to indicate directly or indirectly present conditions with regard to substance abuse. The epidemiologist

..has to get what he can get from such sources as official statistics, which are usually prepared with an object different from his own. Such information is therefore rarely all that one could wish.. But however incomplete the data may be, and however tangentially pertinent to his enquiry, the investigator must take what he can get and be thankful. (M.G. Kendall)<sup>1</sup>

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<sup>1</sup> G.U. Yule and M.G. Kendall, An Introduction to the Theory of Statistics, 14th ed. (New York: Hafner Publishing Co., 1956) p. xix.





**Chapter A** \_\_\_\_\_  
**NATIONAL ALCOHOL SURVEY**

## Chapter A

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# NATIONAL ALCOHOL SURVEY

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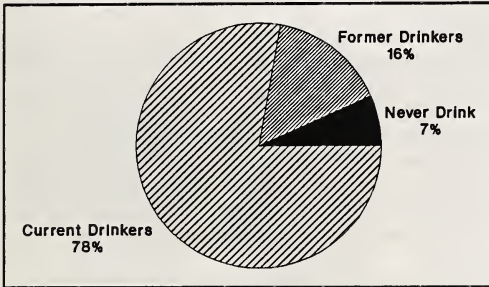
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# A. NATIONAL ALCOHOL SURVEY

## Highlights

**Figure A.1**  
**Drinking Patterns of Canadians,**  
**Age 15 and Over, 1989**

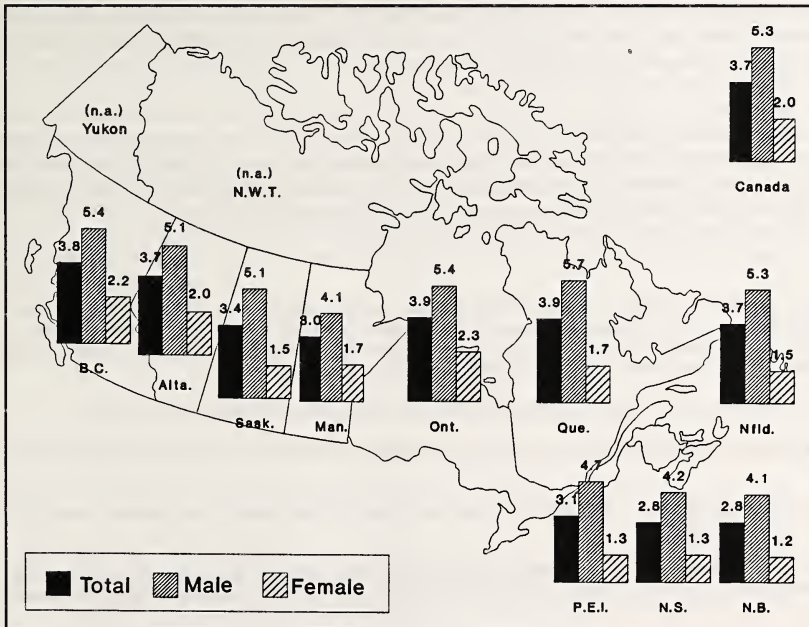


In March 1989, Statistics Canada, on behalf of Health and Welfare Canada, conducted a national telephone survey on alcohol and other substances entitled 'National Alcohol and Other Drugs Survey'. In total, 11,634 Canadians aged 15 and over across the country participated in the study<sup>1</sup>. The following are some findings pertaining to alcohol use in the country.

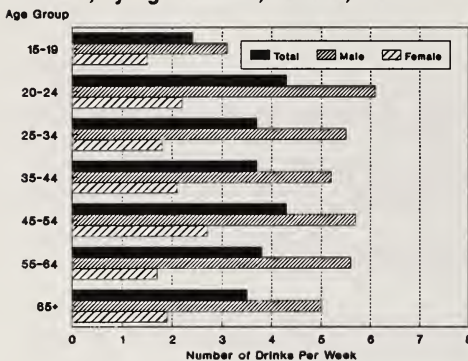
Of the 11,634 respondents, approximately 78% are current drinkers<sup>2</sup>, 16% are former drinkers<sup>3</sup>, and 7% have never drunk (Figure A.1, Table A.1). Men are more likely to be current drinkers than women and this holds true for all provinces and age groups (Table A.1, Table A.2). Furthermore,

among those who drink, men in all provinces and age groups consume more drinks<sup>4</sup> than women (Figure A.2, Figure A.3, Table A.1, Table A.2). For the country as a whole, men average about 5.3 drinks, while women average 2.0 drinks per week. For males, Quebec has the highest average number of drinks (5.7) and for females, its Ontario (2.3).

**Figure A.2**  
**Average Number of Drinks Per Week by Current Drinkers, Age 15 and Over,**  
**Canada and Provinces, 1989**



**Figure A.3**  
**Average Number of Drinks Per Week by Current Drinkers, by Age and Sex, Canada, 1989**



About 88% of individuals aged 20-24 are current drinkers, highest among all age groups (Table A.2). Moreover, this age group, along with those aged 45-54, have reported the highest number of drinks per week (Figure A.3, Table A.2). Among men, those aged 20-24 and among women, those aged 45-54 have more drinks weekly than any other age groups (Figure A.3, Table A.2).

Generally, the higher one's education<sup>5</sup> the more likely one is to indicate drinking in the year prior to the survey. Approximately 73% of the population with secondary education or less are current drinkers, compared to 86% of those who completed post-secondary education (Table A.3). As for the quantity consumed weekly, those with post-secondary degree have the least number of drinks among the three education levels considered (Table A.3).

The more affluent Canadians are the more likely they are to be current drinkers. Sixty percent of those in households with less than \$10,000 annual income have reported drinking in the previous year, compared to 89% of those with income over \$40,000 (Figure A.4, Table A.3). By and large, both men and women exhibit the same pattern (Figure A.4, Table A.3). Further, as income rises, the difference in the percentages of men and women who reported drinking decreases (Figure A.4, Table A.3). The survey also finds that the average number of drinks per week increases steadily as income increases (Table A.3).

Canadians who are active participants in the labour force are more likely to report drinking. At least 82% of those in each employment category have reported alcohol use in the previous 12 months, compared to 63% of those keeping house, 59% of those retired and 77% of students (Table A.3). Both men and women in managerial and professional positions have the highest proportion of current drinkers, 91% and 85% respectively (Table A.3). However, blue collar workers, male or female, consume more alcohol per week than any other groups (Table A.3).

People are most likely to consume alcohol in a bar or tavern and when attending social events or weddings. While in drinking establishments, about 79% of men and 62% of women said they would always drink. The comparable figures for those attending social gatherings or weddings are 59% for men and 45% for women (Table A.4). The level of consumption is also highest while participating in these activities: 3.4 drinks in bars or taverns and 3.2 drinks in social events or weddings (Table A.4).

<sup>1</sup> This study excludes the Yukon and the North West Territories. However, another survey entitled the "Yukon Alcohol and Drug Survey" provides detailed information regarding alcohol use in the Yukon. This study is essentially a replication of the National Alcohol and Other Drugs Survey, integrated and adjusted for the Yukon. Table A.7 compares the prevalence of alcohol consumption in Yukon with the rest of Canada.

<sup>2</sup> A current drinker is anyone who has reported alcohol use at least once in the 12 months prior to the survey.

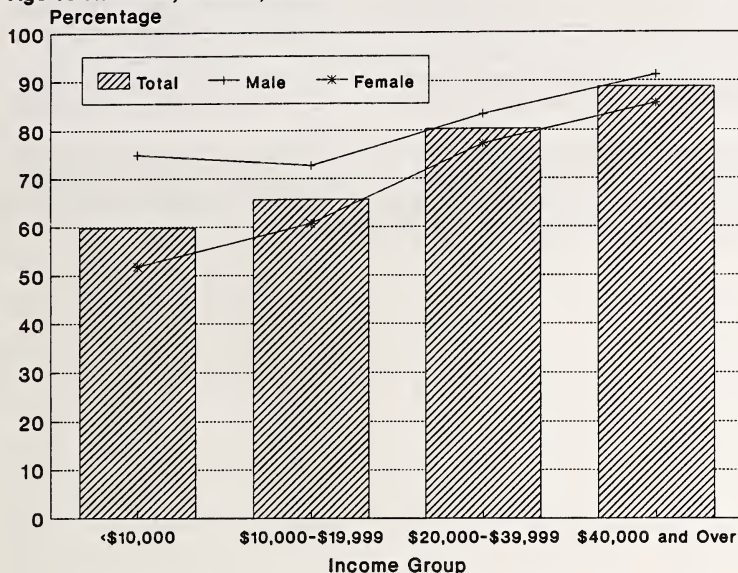
<sup>3</sup> A former drinker is anyone who has consumed alcohol sometimes in his/her lives, but not within the year prior to the survey.

<sup>4</sup> A "drink" is one bottle of beer or glass of draft; or one glass of wine or a wine cooler; or one straight or mixed drink with 44 ml. (1.5oz.) of hard liquor.

<sup>5</sup> It should be pointed out that some respondents, especially those in the younger age groups, are still completing their education and the survey has not been controlled for the effects of such relevant or concurrent variables as age and sex.



**Figure A.4**  
**Percentage of Population by Current Drinkers, by Sex and income,**  
**Age 15 and Over, Canada, 1989**



The survey also reveals that the most common problem of alcohol use is the adverse effect it has on health. Twelve percent of current drinkers report health problems at some time in their lives and 7% within the last year as a result of their drinking (Table A.5). Other common difficulties arising from the misuse of alcohol include the harmful effects on friendships or social life, outlook on life, and home life or marriage (Table A.5).

All respondents were surveyed for their attitudes and beliefs concerning alcohol consumption in 8 different situations. About 22% of respondents feel that it is permissible for a man in a bar with his friends to drink enough to feel effects, while 59% believe that 1-2 drinks is acceptable (Table A.6). However, the corresponding figures for women are 16% and 63% respectively. To contrast, only 1.6% of those surveyed feel that it is acceptable for a man and 0.5% for woman to drink enough to feel effects with co-workers during lunch time (Table A.6).

## **Explanatory Notes**

The data collection process was conducted from centralized telephone interviewing locations in Statistics Canada's eight regional offices. The respondents were asked various questions concerning their alcohol use, including pattern and extent of use, circumstances and settings associated with use, and social, economic and health problems arising as a result of use. Those participated in the survey were guaranteed complete anonymity and confidentiality.

Despite the comprehensiveness of the National Alcohol and Other Drugs Survey, certain limitations exist. Several segments of the Canadian population were not included in the survey such as those under the age of 15, the homeless, the arm forces, those living in institutions, and the 2% of the population who do not have telephones. As such, the survey results must be interpreted with care.



## **References**

Health and Welfare Canada (1990), National Alcohol and Other Drugs Survey (1989): Hightlights Report, Edited by Marc Eliany, Dr. Norman Giesbrecht, Dr. Mike Nelson, Dr. Barry Wellman and Scot Wortley.

Bureau of Statistics, Executive Council Office, the Yukon Government, Yukon Alcohol and Drug Survey, Volume 1 Technical Report (Yukon: Bureau of Statistics, May, 1991).

**TABLE A.1**

**TYPE OF DRINKER AND AVERAGE NUMBER OF DRINKS PER WEEK, BY PROVINCE, AGE 15 AND OVER, CANADA, 1989**

Province	Sample Size N	Pop. Est. (000's)	Non-Drinkers		Current Drinkers <sup>2</sup>	Average Number of drinks <sup>3</sup> /wk
			Never	Former Drinker <sup>1</sup>		
Nfld.	961	427	11.2%	21.2%	67.6%	3.7
Male	446	211	4.7	17.4	77.9	5.3
Female	515	216	17.5	24.8	57.7	1.5
P.E.I.	828	98	10.2	26.0	63.7	3.1
Male	412	48	5.3	24.1	70.6	4.7
Female	416	50	15.0	27.9	57.1	1.3
N.S.	1,259	690	9.2	19.5	71.2	2.8
Male	557	336	*4.8	17.6	77.5	4.2
Female	702	354	13.4	21.4	65.2	1.3
N.B.	812	552	12.6	19.4	68.0	2.8
Male	386	269	*7.4	15.4	77.2	4.1
Female	426	283	17.6	23.1	59.3	1.2
Que.	1,808	5,237	9.0	14.6	76.4	3.9
Male	789	2,541	*3.9	11.9	84.2	5.7
Female	1,019	2,697	13.9	17.1	69.0	1.7
Ont.	1,974	7,486	5.7	16.6	77.6	3.9
Male	899	3,653	*3.3	13.1	83.6	5.4
Female	1,075	3,832	8.1	20.0	72.0	2.3
Man.	947	830	4.2	16.5	79.3	3.0
Male	418	406	*4.9	9.9	85.3	4.1
Female	529	425	*3.6	22.9	73.6	1.7
Sask.	921	748	4.9	16.7	78.4	3.4
Male	412	370	3.0	13.9	83.1	5.1
Female	509	378	6.8	19.4	73.9	1.5
Alta.	992	1,826	5.9	12.2	81.9	3.7
Male	460	911	4.2	8.5	87.3	5.1
Female	532	916	7.5	16.0	76.5	2.0
B.C.	1,132	2,390	3.2	13.8	82.9	3.8
Male	512	1,174	3.0	11.6	85.4	5.4
Female	620	1,215	3.5	16.0	80.6	2.2
<b>Canada</b>	<b>11,634</b>	<b>20,285</b>	<b>6.6</b>	<b>15.7</b>	<b>77.7</b>	<b>3.7</b>
<b>Male</b>	<b>5,291</b>	<b>9,920</b>	<b>3.7</b>	<b>12.5</b>	<b>83.8</b>	<b>5.3</b>
<b>Female</b>	<b>6,343</b>	<b>10,365</b>	<b>9.4</b>	<b>18.8</b>	<b>71.8</b>	<b>2.0</b>

## TABLE A.1 (Concluded)

### TYPE OF DRINKER AND AVERAGE NUMBER OF DRINKS PER WEEK, BY PROVINCE, AGE 15 AND OVER, CANADA, 1989

\* High sampling variability

<sup>1</sup> A former drinker is anyone who consumed alcohol sometimes in his/her life, but not within the year prior to the survey.

<sup>2</sup> A current drinker is anyone who has reported alcohol use at least once in the 12 months prior to the survey.

<sup>3</sup> A "drink" is one bottle of beer or glass of draft; or one glass of wine or a wine cooler; or one straight or mixed drink with 44 ml (1.5 oz) of hard liquor.

Source: Health and Welfare Canada (1990), National Alcohol and Other Drugs Survey (1989): Highlights Report, Edited by Marc Eliany, Dr. Norman Giesbrecht, Dr. Mike Nelson, Dr. Barry Wellman and Scot Wortley.

TABLE A.2

### TYPE OF DRINKER AND AVERAGE NUMBER OF DRINKS PER WEEK, BY AGE AND SEX, CANADA, 1989

Age	Sample Size N	Pop. Est. (000's)	Non-Drinkers		Current Drinkers <sup>2</sup>	Average Number of drinks <sup>3</sup> /wk
			Never	Former Drinker <sup>1</sup>		
Total 15+	11,634	20,285	6.6%	15.7%	77.7%	3.7
Male	5,291	9,920	3.7	12.5	83.8	5.3
Female	6,343	10,365	9.4	18.8	71.8	2.0
15-19	838	1,866	11.6	14.1	74.3	2.4
Male	412	956	12.2	11.8	76.0	3.1
Female	426	910	11.0	16.6	72.4	1.5
20-24	1,049	2,034	3.8	8.3	87.9	4.3
Male	489	1,027	2.6	4.3	93.1	6.1
Female	560	1,007	5.0	12.4	82.6	2.2
25-34	3,059	4,670	3.7	9.3	86.9	3.7
Male	1,396	2,318	1.5	6.6	91.9	5.5
Female	1,663	2,352	5.8	12.0	82.1	1.8
35-44	2,352	3,962	3.8	13.0	83.1	3.7
Male	1,152	1,971	2.1	12.5	85.4	5.2
Female	1,200	1,991	5.5	13.6	80.9	2.1
45-54	1,371	2,701	6.8	16.7	76.5	4.3
Male	673	1,349	3.1	12.0	84.9	5.7
Female	698	1,352	10.5	21.4	68.0	2.7
55-64	1,207	2,334	6.4	21.4	72.1	3.8
Male	529	1,137	3.0	17.4	79.7	5.6
Female	678	1,197	9.7	25.3	64.9	1.7
65+	1,758	2,718	14.6	31.1	54.3	3.5
Male	640	1,162	6.4	27.6	65.9	5.0
Female	1,118	1,557	20.6	33.7	45.7	1.9

1, 2, 3 See corresponding note in Table A.1.

Source: Health and Welfare Canada (1990), National Alcohol and Other Drugs Survey (1989): Highlights Report, Edited by Marc Eliany Dr. Norman Giesbrecht, Dr. Mike Nelson, Dr. Barry Wellman and Scot Wortley.

TABLE A.3

**TYPE OF DRINKER AND AVERAGE NUMBER OF DRINKS PER WEEK, BY EDUCATION, INCOME GROUP, OCCUPATION AND SEX, AGE 15 AND OVER, CANADA, 1989**

	Sample Size N	Pop. Est. (000's)	Non-Drinkers		Current Drinkers <sup>2</sup>	Average Number of Drinks <sup>3</sup> /wk
			Never	Former Drinker <sup>1</sup>		
Total Population	11,634	20,285	6.6%	15.7%	77.7%	3.7
Male	5,291	9,920	3.7	12.5	83.8	5.3
Female	6,343	10,365	9.4	18.8	71.8	2.0
<b>EDUCATION:</b>						
Secondary or less	7,257	12,412	8.2	19.0	72.8	3.8
Male	3,312	5,946	4.4	15.0	80.6	5.5
Female	3,945	6,466	11.7	22.7	65.6	1.8
Some post-secondary	1,360	2,470	*4.6	8.1	87.2	4.2
Male	630	1,235	*3.7	*7.3	89.0	5.7
Female	730	1,235	*5.6	*9.0	85.4	2.6
Post-secondary Degree	2,910	5,160	3.8	10.2	86.0	3.6
Male	1,311	2,642	*1.9	8.5	89.6	4.8
Female	1,599	2,518	5.9	11.9	82.2	2.2
<b>INCOME GROUP:</b>						
<\$10,000	837	914	*10.8	29.4	59.8	2.7
Male	249	314	--	*20.8	74.9	4.2
Female	588	599	*14.2	33.9	51.8	1.6
\$10,000-\$19,999	2,122	2,885	10.3	24.0	65.7	3.4
Male	832	1,194	*4.7	22.6	72.7	5.6
Female	1,290	1,691	14.3	25.0	60.7	1.6
\$20,000-\$39,999	3,495	5,601	5.2	14.5	80.3	3.7
Male	1,687	2,812	*3.8	12.9	83.3	5.3
Female	1,808	2,788	6.7	16.1	77.2	2.1
\$40,000+	3,546	7,711	3.2	8.0	88.8	4.2
Male	1,930	4,345	*2.0	6.7	91.3	5.6
Female	1,616	3,366	4.8	9.7	85.5	2.3



TABLE A.3 (Concluded)

**TYPE OF DRINKER AND AVERAGE NUMBER OF DRINKS PER WEEK, BY EDUCATION, INCOME GROUP, OCCUPATION AND SEX, AGE 15 AND OVER, CANADA, 1989**

	Sample Size N	Pop. Est. (000's)	Non-Drinkers		Current Drinkers <sup>2</sup>	Average Number of Drinks <sup>3</sup> /wk
			Never	Former Drinker <sup>1</sup>		
<b>OCCUPATION:</b>						
Managerial/Professional	2,305	3,991	3.0	8.7	88.3	3.8
Male	1,128	2,170	*1.8	7.5	90.7	4.8
Female	1,177	1,821	*4.6	10.0	85.4	2.7
Other White-collar	2,256	4,044	5.1	12.7	82.2	3.4
Male	770	1,510	*3.9	11.5	84.6	5.3
Female	1,486	2,534	5.7	13.4	80.8	2.2
Blue-collar	2,145	3,747	*2.5	11.4	86.1	5.8
Male	1,831	3,192	*1.7	9.7	88.6	6.2
Female	314	555	*7.2	21.2	71.6	2.7
Looking for work	311	470	*6.4	*11.8	81.8	3.5
Male	178	279	--	*12.8	80.1	5.2
Female	133	191	--	--	84.1	1.0
Student	1,059	2,265	10.2	12.5	77.3	2.6
Male	497	1,133	11.2	9.3	79.5	3.6
Female	562	1,133	*9.2	15.7	75.1	1.5
Retired	1,570	2,587	10.9	30.0	59.1	3.8
Male	723	1,313	*4.4	27.7	67.9	5.1
Female	847	1,273	17.6	32.4	50.0	1.9
Keeping House	1,766	2,730	13.1	23.5	63.4	1.5
Male	41	59	--	--	82.5	3.3
Female	1,725	2,672	13.2	23.8	63.0	1.5
Other	118	204	--	*24.8	69.6	6.7
Male	76	135	--	29.1	68.5	9.3
Female	42	69	--	--	71.9	2.0

\* High sampling variability      -- Data was suppressed in the source material

1, 2, 3      See corresponding note in Table A.1.

Source: Health and Welfare Canada (1990), National Alcohol and Other Drugs Survey (1989): Highlights Report, Edited by Marc Eliany, Dr. Norman Giesbrecht, Dr. Mike Nelson, Dr. Barry Wellman and Scot Wortley.



TABLE A.4

**FREQUENCY OF DRINKING WHILE PARTICIPATING IN DIFFERENT ACTIVITIES AND USUAL NUMBER OF DRINKS CONSUMED PER OCCASION, BY SEX, AGE 15 AND OVER, CANADA, 1989**

	Sample Size N	Pop. Est. (000's)	Never	<1/2 the Time	About 1/2 the Time	>1/2 the Time	Always	Usual # Drinks per Occasion
Quiet evening at home	8,651	15,531	54.9%	33.8%	5.4%	2.3%	3.6%	1.99
Male	4,275	8,182	48.1	36.6	7.0	3.3	4.9	2.20
Female	4,376	7,349	62.6	30.7	3.6	*1.1	2.1	1.68
Someone else's home	8,354	14,975	25.5	41.9	16.3	7.1	9.1	2.11
Male	4,107	7,852	20.6	39.5	19.4	9.2	11.2	2.35
Female	4,247	7,123	31.0	44.6	12.8	4.7	6.9	1.80
Friends or relatives visit	8,446	15,085	26.3	38.8	16.2	7.0	11.6	2.17
Male	4,155	7,883	22.1	36.2	18.9	8.6	14.1	2.42
Female	4,291	7,203	30.8	41.6	13.2	5.1	8.9	1.86
Go to a restaurant for dinner	7,477	13,635	29.3	27.0	13.4	7.2	22.9	1.60
Male	3,644	7,127	28.3	25.5	14.2	7.9	23.9	1.71
Female	3,833	6,508	30.5	28.7	12.4	6.3	21.8	1.49
Go to a restaurant for lunch	5,311	9,061	77.3	14.1	3.7	1.5	3.4	1.30
Male	2,554	4,701	73.3	15.9	5.1	*2.0	3.7	1.35
Female	2,757	4,360	81.7	12.1	*2.2	*0.9	3.1	1.21
Go to a bar or tavern	4,305	7,091	3.1	9.1	6.7	8.8	72.0	3.35
Male	2,464	4,316	1.7	6.1	5.5	7.8	78.6	3.69
Female	1,841	2,775	5.2	13.8	8.6	10.3	61.8	2.80
Go to a club or meeting	4,092	6,635	64.0	16.2	5.9	2.6	11.1	2.06
Male	2,117	3,631	57.4	17.3	7.2	3.9	14.0	2.24
Female	1,975	3,004	72.0	15.0	4.4	*1.0	7.5	1.73
Leisure activities	5,784	9,972	29.2	34.0	13.7	8.0	15.0	3.09
Male	3,010	5,493	24.8	31.2	15.2	10.1	18.6	3.63
Female	2,774	4,479	34.5	37.4	11.8	5.6	10.7	2.33
Sports activities	4,953	9,049	69.0	15.9	5.9	2.9	5.8	2.22
Male	2,721	5,285	63.3	17.2	7.4	3.9	7.7	2.38
Female	2,232	3,763	77.0	14.1	3.9	*1.6	3.2	1.87
Social event or wedding	7,454	13,139	7.9	18.4	11.3	9.9	52.2	3.16
Male	3,653	6,845	6.8	14.1	10.1	9.9	58.8	3.69
Female	3,801	6,294	9.1	23.2	12.5	9.8	45.1	2.58
Concert, game, or festival	5,583	9,876	66.7	16.2	6.1	2.7	8.2	2.59
Male	2,819	5,387	59.4	17.5	8.1	3.5	11.3	2.86
Female	2,764	4,489	75.5	14.6	3.8	*1.7	4.4	2.05

\* High sampling variability

Source: Health and Welfare Canada (1990), National Alcohol and Other Drugs Survey (1989): Highlights Report, Edited by Marc Eliany, Dr. Norman Giesbrecht, Dr. Mike Nelson, Dr. Barry Wellman and Scot Wortley.

**TABLE A.5**

**PERCENTAGE OF CURRENT DRINKERS REPORTING PROBLEMS RESULTING FROM THEIR OWN CONSUMPTION OF ALCOHOL, BY SEX, CANADA, 1989**

Problems with:	Sample Size N	Pop. Est. (000's)	Ever	Within the last year
Friendships or Social Life	8,760	15,752	10.5%	4.7%
Male	4,332	8,310	13.3	5.7
Female	4,428	7,441	7.3	3.5
Physical Health	8,760	15,752	11.6	7.1
Male	4,332	8,310	14.2	8.5
Female	4,428	7,441	8.6	5.5
Outlook on Life	8,760	15,752	6.7	3.5
Male	4,332	8,310	7.7	3.7
Female	4,428	7,441	5.5	3.3
Home Life or Marriage	8,760	15,752	5.5	3.0
Male	4,332	8,310	6.9	3.5
Female	4,428	7,441	3.9	2.4
Work, Studies or Employment				
Opportunities	8,760	15,752	3.5	2.0
Male	4,332	8,310	4.9	2.6
Female	4,428	7,441	1.9	*1.3
Financial Position	8,760	15,752	5.4	3.8
Male	4,332	8,310	7.4	5.1
Female	4,428	7,441	3.1	2.4

\* High sampling variability

Source: Health and Welfare Canada (1990), National Alcohol and Other Drugs Survey (1989): Highlights Report, Edited by Marc Eliany, Dr. Norman Giesbrecht, Dr. Mike Nelson, Dr. Barry Wellman and Scot Wortley.

**TABLE A.6**

**ATTITUDES AND BELIEFS CONCERNING ALCOHOL CONSUMPTION IN VARIOUS SITUATIONS, BY SEX, AGE 15 AND OVER, CANADA, 1989**

	Sample Size N	Pop. Est. (000's)	No Drinking	1-2 Drinks <sup>1</sup>	Enough to Feel Effects	Don't Know
At a party or someone else's home	11,634	20,285	10.6%	62.1%	18.7%	7.5%
Male	5,291	9,920	8.6	57.1	24.8	8.6
Female	6,343	10,365	12.5	66.9	12.9	6.5
For a man out at a bar with his friends	11,634	20,285	8.2	58.5	21.8	10.4
Male	5,291	9,920	7.0	54.1	27.7	10.1
Female	6,343	10,365	9.2	62.7	16.2	10.6
For a woman out at a bar with her friends	11,634	20,285	12.3	60.4	16.3	9.8
Male	5,291	9,920	10.8	55.7	21.4	11.1
Female	6,343	10,365	13.8	64.9	11.4	8.7
For a couple having dinner at home	11,634	20,285	14.8	61.4	15.4	7.2
Male	5,291	9,920	13.4	61.4	16.0	8.1
Female	6,343	10,365	16.1	61.5	14.8	6.3
For co-workers out to lunch	11,634	20,285	59.1	33.0	1.0	5.8
Male	5,291	9,920	53.9	37.1	1.6	6.5
Female	6,343	10,365	64.1	29.0	*0.5	5.2
With friends at your home	11,634	20,285	16.2	59.8	17.5	5.4
Male	5,291	9,920	14.0	56.3	22.4	6.3
Female	6,343	10,365	18.2	63.1	12.8	4.6
With friends after work	11,634	20,285	47.0	41.2	3.5	7.3
Male	5,291	9,920	41.0	44.6	5.3	8.2
Female	6,343	10,365	52.7	37.8	1.8	6.5
With people at sports events or recreation	11,634	20,285	47.1	40.2	5.0	6.8
Male	5,291	9,920	40.7	43.6	7.2	7.6
Female	6,343	10,365	53.1	36.9	2.8	6.0

\* High sampling variability

<sup>1</sup> See corresponding note in Table A.1.

Source: Health and Welfare Canada (1990), National Alcohol and Other Drugs Survey (1989): Highlights Report, Edited by Marc Eliany, Dr. Norman Giesbrecht, Dr. Mike Nelson, Dr. Barry Wellman and Scot Wortley.

TABLE A.7

## TYPE OF DRINKER BY AGE AND SEX, YUKON AND CANADA COMPARED, 1990

Sex and Age	Abstainers	Former Drinkers		Current Drinkers			
		Irregular	Regular	Light		Heavy	
				Infreq.	Freq.	Infreq.	Freq.
<b>Yukon</b>							
<b>Results from the Yukon Alcohol and Drug Survey, 1990</b>							
<b>Sex:</b> Male	3.4%	5.7%	12.5%	20%	32.1%	6.5%	19.8%
Female	4.0	10.9	8.7	37.3	21.8	10.4	6.9
<b>Age:</b> 15-19	16.6	9.7	--	35.2	9.9	16.7	11.0
20-24	6.0	5.2	2.5	16.9	26.6	14.5	28.3
25-34	2.2	4.8	6.1	27.0	29.1	10.0	20.7
35-44	--	4.3	11.4	32.3	33.1	7.8	9.5
45-54	--	9.9	15.0	30.0	30.5	2.1	11.1
55+	3.1	23.0	27.0	20.9	19.3	3.2	3.5
<b>Canada</b>							
<b>Results from the National Alcohol and Drug Survey, 1989</b>							
<b>Sex:</b> Male	3.8	6.6	6.0	27.8	40.0	4.5	11.3
Female	9.5	16.2	2.6	43.2	23.3	2.8	2.4
<b>Age:</b> 15-19	11.7	12.7	--	42.3	11.7	9.5	10.8
20-24	3.8	7.3	--	34.1	28.6	7.7	17.4
25-34	3.7	6.7	2.6	39.4	34.8	4.4	8.4
35-44	3.9	8.2	4.9	37.6	38.1	2.4	4.9
45-54	6.9	11.3	5.5	31.3	38.6	2.2	4.2
55+	10.9	19.9	7.1	31.2	27.8	--	2.2

-- Data was suppressed in the source material

**Note:** Respondents were divided into three main categories -- abstainers (never drank), former drinkers (no alcohol in past year), and current drinkers (have had drink in past year). Former drinkers were then sub-divided into regular former (once drank on 'regular' basis) and irregular former (never drank on a 'regular' basis) drinkers according to their past use of alcohol. Current drinkers were divided into four categories dependent on the quantity of alcohol consumed per occasion and the frequency of drinking occasions per month - light infrequent (less than 5 drinks/occasion less than 4 times/month), light frequent (less than 5 drinks/occasion, 4 times/month or more), heavy infrequent (more than 5 drinks/occasion, less than 4 times/month) and heavy frequent (more than 5 drinks/occasion, 4 times/month or more).

**Source:** Bureau of Statistics, Executive Council Office, the Yukon Government, Yukon Alcohol and Drug Survey, Volume 1 Technical Report (Yukon: Bureau of Statistics, May, 1991).



**Chapter B** \_\_\_\_\_  
**NATIONAL DRUG SURVEY**



## Chapter B

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# NATIONAL DRUG SURVEY

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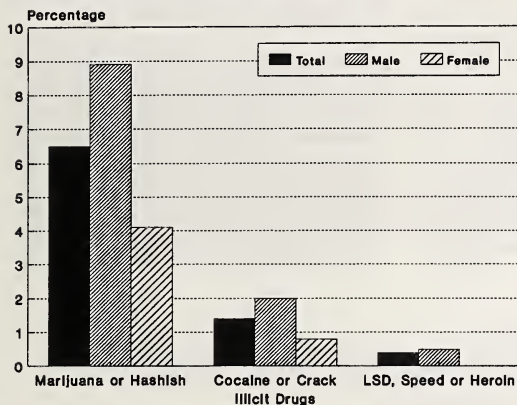
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## B. NATIONAL DRUG SURVEY

### Highlights

**Figure B.1**  
Percentage of Population who are Current Users of Illicit Drugs, Age 15 and over, Canada, 1989



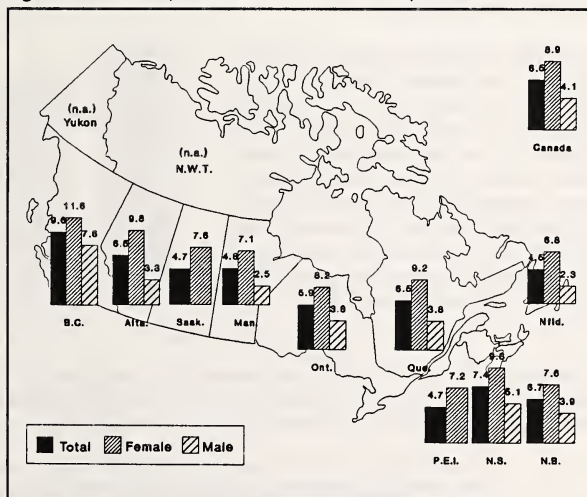
In March 1989, Statistics Canada, on behalf of Health and Welfare Canada, conducted a national telephone survey on alcohol and other drugs entitled "National Alcohol and Other Drugs Survey". In total, 11,634 Canadians aged 15 and over across the country participated in the study<sup>1</sup>. The following are some findings pertaining to drug use in the country.

According to the survey, cannabis (marijuana and hashish) is the most commonly used illicit substance in Canada. About 23.2% of all respondents admit to its use at some time in their lives, while the corresponding figures for cocaine or crack, and LSD, speed or heroin are 3.5% and 4.1% respectively (Table B.1). Furthermore, 6.5% of the population are current users<sup>2</sup> of cannabis, compared to only 1.4% for cocaine or crack (Figure B.1, Table B.1). The rates for both lifetime and current usage are higher among men than women for all three categories of illicit drugs (Table B.1).

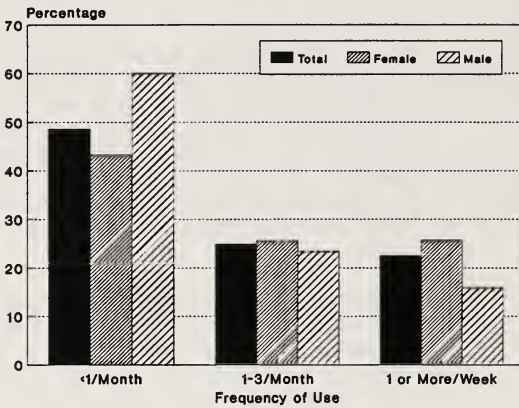
The use of cannabis is most prevalent in British Columbia and Nova Scotia, where 9.6% and 7.4% of the respondents respectively have reported use of the substance in the last year (Figure B.2, Table B.1). British Columbia also has the largest proportion of male and female current users (Figure B.2, Table B.1).

The highest rate of cannabis exposure reported by those aged 20-24; 43.1% have used either marijuana or hashish at some time in their lives, while 18.4% have used it in the year prior to the survey (Table B.2). Fifty-two percent of men aged 25-34 and 36.7% of women aged 20-24 have used cannabis at some point in their lives, highest among males and females respectively (Table B.2). Both men and women in the age group 20-24, on the other hand, have the highest current usage rate (Table B.2).

**Figure B.2**  
Percentage of Population who are Current Users of Cannabis, Age 15 and Over, Canada and Provinces<sup>2</sup>, 1989



**Figure B.3**  
**Frequency of Cannabis Use Among Current Users,**  
**Canada, 1989**

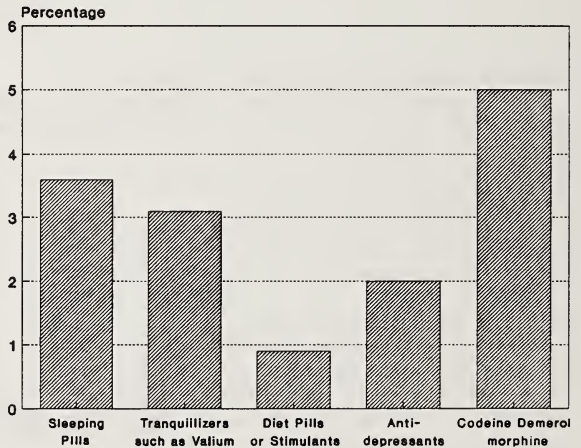


About 48.6% of all current users consume cannabis less than once a month, while 24.8% used the drug 1 to 3 times a month and 22.4% use it once or more per week (Figure B.3, Table B.3). The proportion of women and men reporting cannabis use declines steadily as the frequency of consumption increases (Figure B.3, Table B.3).

Of the five types of licit drugs studied, the use of prescription opiates (including codeine, demerol and morphine) is most prevalent, followed by sleeping pills, and tranquilizers (Figure B.4, Table B.4). Provincially the consumption rate is highest in Alberta for prescription opiates and highest in Quebec for sleeping pills and tranquilizers (Table B.4).

The age group 20-24 reported the highest rate of prescription opiates usage (6.2%) in the month prior to the survey (Table B.5). However, with 7.1% acknowledging use, women aged 35-44 have the highest usage rate among males and females of all age groups (Table B.5). For sleeping pills, the highest rates of usage is reported by those aged 65 and over, with 10.3% of men and 11.6% of women admitting use (Table B.5).

**Figure B.4**  
**Percentage of Population Who Used Licit Drugs in the**  
**Month Preceding the Survey, Age 15 and Over,**  
**Canada, 1989**



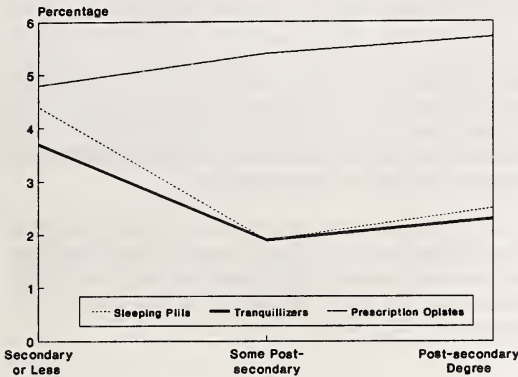
In general, the consumption of sleeping pills and tranquilizers appears to vary inversely with the level of education (Figure B.5, Table B.6). However, the opposite is true for prescription opiates. About 4.8% of those with secondary or less education reported use of codeine, demerol and morphine in the month prior to the survey, compared to 5.7% of those who have completed their post-secondary education (Figure B.5, Table B.6).

Furthermore, the use of these three classes of licit drugs also tends to vary inversely with income (Figure B.6, Table B.6). The only exception to this is in the consumption of prescription opiates for those with income \$20,000-\$39,999 (4.7%) and \$40,000 and over (6.0%) (Figure B.6, Table B.6).

<sup>1</sup> This study excludes the Yukon and the North West Territories. However, another survey entitled the "Yukon Alcohol and Drug Survey" provides detailed information regarding drug use in the Yukon. This study is essentially a replication of the National Alcohol and Other Drugs Survey, integrated and adjusted for the Yukon. Table B.9 compares the prevalence of selected drugs consumption in Yukon with the rest of Canada.



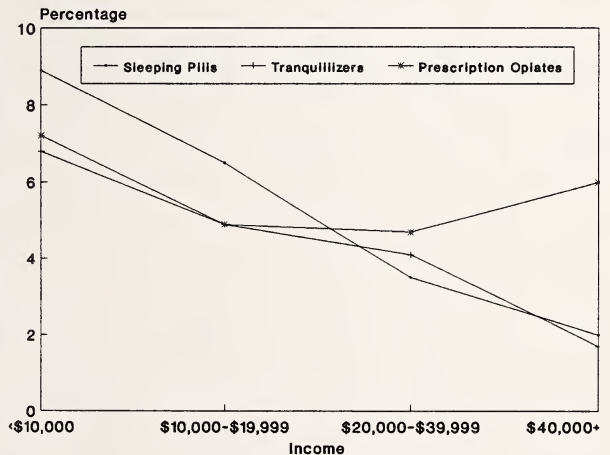
**Figure B.5**  
**Percentage of Population who Used Selected Licit Drugs in the Month Preceding the Survey, by Education, Age 15 and Over, Canada, 1989**



Aside from issues about consumption of various substances, the interviewers also asked respondents for their opinions concerning a variety of relevant policy issues. Table B.7 and B.8 summarize these results. The survey indicates that the majority of people (70%) feel there should be no change in operation hours of beer/liquor store and almost half (46%) feel that taxes on alcohol should remain the same. The majority feel that there should be increased effort to prevent serving drunks (82%), as well as increases in alcohol and drug prevention (81%), in treatment programs (74%), and in government advertising against drinking (61%). Almost half (50%) favoured increasing the drinking age, but almost as many (45%) feel it should remain the same.

**Figure B.6**  
**Percentage of Population who Used Selected Licit Drugs in the Month Preceding the Survey, by Income, Age 15 and Over, Canada, 1989**

Moreover, majority of Canadians (74%) agree that alcohol should not be sold in corner stores, and as many (74%) feel that alcohol should have warning labels. A little over half (51%) think government should stop alcohol ads on TV and that marijuana possession should be a criminal offence (54%). However, more than half (58%) do not think government should stop alcohol-sponsored events. Overall, women appear to be more supportive of measures to limit alcohol and other drug use than men.



<sup>2</sup> Current Users are those respondents who have used the substances the year prior to the survey.

<sup>3</sup> The data for females in P.E.I. and Saskatchewan are suppressed in the source material.

## Explanatory Notes

The data collection process was conducted from centralized telephone interviewing locations in Statistics Canada's eight regional offices. The respondents were asked various questions regarding their drug use, including pattern and extent of use. Those who participated in the survey were guaranteed complete anonymity and confidentiality.

Although many other categories of substances exist, the illicit drugs (which include cannabis or marijuana and hashish, cocaine, LSD, speed and heroin) and licit drugs (which include sleeping pills, tranquilizers, diet pills, antidepressants and prescription opiates such as codeine, demerol and morphine) included in the survey were most likely to have been used by those aged 15 and over. Moreover, these substances have been examined in other studies, therefore it is possible to facilitate some comparison.

Since the usage of these drugs is less common than for alcohol, percentages are given to one decimal place. Despite the comprehensiveness of the National Alcohol and Other Drugs Survey, certain limitations exist. Several segments of the Canadian population were not included in the survey such as those under the age of 15, the homeless, those living in institutions, and the 2% of the population who do not have telephones. As such, the survey results must be interpreted with care.

## **References**

Health and Welfare Canada (1990), National Alcohol and Other Drugs Survey (1989): Hightlights Report, Edited by Marc Eliany, Dr. Norman Giesbrecht, Dr. Mike Nelson, Dr. Barry Wellman and Scot Wortley.

Bureau of Statistics, Executive Council Office, the Yukon Government, Yukon Alcohol and Drug Survey, Volume 1 Technical Report (Yukon: Bureau of Statistics, May, 1991).

**TABLE B.1**

**PERCENTAGE OF POPULATION WHICH USED SELECTED ILLICIT DRUGS IN THE 12 MONTHS PRECEDING THE SURVEY, BY SEX, AGE 15 AND OVER, CANADA AND PROVINCES, 1989**

Province	Sample Size N	Pop. Est. (000's)	Marijuana or Hashish		Cocaine or Crack		LSD, Speed or Heroin	
			Ever	Last Year	Ever	Last Year	Ever	Last Year
Nfld.	961	427	18.1%	4.5%	--	--	1.2%	--
Male	446	211	25.1	*6.8	--	--	*2.2	--
Female	515	216	11.3	*2.3	--	--	--	--
P.E.I.	828	98	17.9	4.7	--	--	*2.4	--
Male	412	48	24.6	*7.2	--	--	*3.3	--
Female	416	50	11.4	--	--	--	--	--
N.S.	1,259	690	22.8	7.4	*1.4	--	*1.8	--
Male	557	336	27.9	9.8	*2.1	--	*2.9	--
Female	702	354	17.9	5.1	--	--	--	--
N.B.	812	552	21.1	5.7	1.8	--	*4.5	--
Male	386	269	26.7	*7.6	--	--	*6.6	--
Female	426	283	15.7	*3.9	--	--	*2.5	--
Que.	1,808	5,237	21.3	6.5	4.1	2.0	3.2	--
Male	789	2,541	27.4	9.2	5.1	*2.9	*3.7	--
Female	1,019	2,697	15.6	*3.8	*3.0	*1.1	*2.6	--
Ont.	1,974	7,486	21.7	5.9	2.8	*1.1	4.1	--
Male	899	3,653	26.9	8.2	*3.6	*1.9	5.0	--
Female	1,075	3,832	16.9	*3.8	*2.0	--	*3.3	--
Man.	947	830	22.3	4.8	*1.9	--	3.8	--
Male	418	406	29.0	*7.1	*2.8	--	*5.4	--
Female	529	425	15.9	*2.5	--	--	*2.2	--
Sask.	921	748	21.2	4.7	*2.5	--	*3.6	--
Male	412	370	28.3	*7.5	*4.0	--	*5.8	--
Female	509	378	14.2	--	--	--	--	--
Alta.	992	1,826	27.8	6.5	3.7	*1.1	5.5	--
Male	460	911	34.9	9.8	*4.8	--	*7.1	--
Female	532	916	20.7	*3.3	*2.5	--	*3.9	--
B.C.	1,132	2,390	30.7	9.6	7.2	*2.1	6.1	--
Male	512	1,174	35.5	11.5	8.0	*1.9	*7.0	--
Female	620	1,215	26.1	7.8	*6.5	*2.4	*5.2	--
<b>Canada</b>	<b>11,634</b>	<b>20,285</b>	<b>23.2</b>	<b>6.5</b>	<b>3.5</b>	<b>1.4</b>	<b>4.1</b>	<b>*0.4</b>
<b>Male</b>	<b>5,291</b>	<b>9,920</b>	<b>28.9</b>	<b>8.9</b>	<b>4.5</b>	<b>2.0</b>	<b>5.1</b>	<b>*0.5</b>
<b>Female</b>	<b>6,343</b>	<b>10,365</b>	<b>17.7</b>	<b>4.1</b>	<b>2.7</b>	<b>*0.8</b>	<b>3.1</b>	<b>--</b>

\* High sampling variability

-- Data was suppressed in the source material

Source: Health and Welfare Canada (1990), National Alcohol and Other Drugs Survey (1989): Highlights Report, Edited by Marc Eliany, Dr. Norman Giesgrecht, Dr. Mike Nelson, Dr. Barry Wellman and Scot Wortley.

**TABLE B.2**

**PERCENTAGE OF POPULATION WHICH USED SELECTED ILLICIT DRUGS IN THE 12 MONTHS PRECEDING THE SURVEY, BY AGE AND SEX, CANADA, 1989**

Age	Sample Size N	Pop. Est (000's)	Marijuana or Hashish		Cocaine or Crack		LSD, Speed or Heroin	
			Ever	Last Year	Ever	Last Year	Ever	Last Year
Total 15+	11,634	20,285	23.2	6.5	3.5	1.4	4.1	*0.4
Male	5,291	9,920	28.9	8.9	4.5	2.0	5.1	*0.5
Female	6,343	10,365	17.7	4.1	2.7	*0.8	3.1	--
15-19	838	1,866	23.2	12.3	*2.5	*1.9	*4.5	*2.1
Male	412	856	23.1	14.3	--	--	*4.9	--
Female	426	910	23.3	*10.3	--	--	*4.2	--
20-24	1,049	2,034	43.1	18.4	7.0	*3.1	*4.7	--
Male	489	1,027	49.4	23.7	*8.2	*4.0	*6.0	--
Female	560	1,007	36.7	13.0	*5.8	--	*3.3	--
25-34	3,059	4,670	43.0	10.5	8.6	3.3	7.5	--
Male	1,396	2,318	51.7	15.2	10.6	*4.9	8.6	--
Female	1,663	2,352	34.4	6.0	6.7	*1.8	6.5	--
35-44	2,352	3,962	25.8	4.5	*2.3	--	5.9	--
Male	1,152	1,971	33.6	6.2	*3.2	--	7.7	--
Female	1,200	1,991	18.2	*2.8	*1.5	--	4.1	--
45-54	1,371	2,701	10.0	*1.2	--	--	*1.5	--
Male	673	1,349	16.5	--	--	--	*2.6	--
Female	698	1,352	*3.5	--	--	--	--	--
55-64	1,207	2,334	*2.4	--	--	--	--	--
Male	529	1,137	*3.3	--	--	--	--	--
Female	678	1,197	--	--	--	--	--	--
65+	1,758	2,718	*1.2	--	--	--	--	--
Male	640	1,162	--	--	--	--	--	--
Female	1,118	1,557	--	--	--	--	--	--

\* High sampling variability

-- Data was suppressed in the source material

Source: Health and Welfare Canada (1990), National Alcohol and Other Drugs Survey (1989): Highlights Report, Edited by Marc Eliany, Dr. Norman Giesgrecht, Dr. Mike Nelson, Dr. Barry Wellman and Scot Wortley.



**TABLE B.3**

**TYPE OF CANNABIS USER AND FREQUENCY OF CONSUMPTION  
IN THE LAST 12 MONTHS, BY SEX, AGE 15 AND OVER,  
CANADA AND PROVINCES, 1989**

Province	Sample Size N	Pop. Est. (000's)	Frequency of Consumption		
			< 1/Mo.	1-3/Mo.	Once or more/Wk
Nfld	46	19	*35.9%	--	*24.4%
Male	34	14	*26.3	--	*24.7
Female	12	5	*63.5	--	--
P.E.I.	42	5	*65.8	--	*17.3
Male	32	3	*57.4	--	*22.9
Female	10	1	91.9	--	--
N.S.	88	51	57.5	*26.1	*12.1
Male	56	33	48.0	*29.6	*16.9
Female	32	18	75.1	--	--
N.B.	47	31	67.0	--	--
Male	32	20	*57.7	--	--
Female	15	11	84.1	--	--
Que.	113	338	49.3	29.2	*20.8
Male	74	235	45.2	*31.9	*21.9
Female	39	103	*58.8	*23.1	--
Ont.	121	445	49.4	*22.1	*21.5
Male	78	300	43.8	*21.2	*24.6
Female	43	145	61.0	*23.9	--
Man.	53	40	49.4	*28.9	*19.3
Male	34	29	*49.5	--	*26.5
Female	19	11	*49.1	*50.9	--
Sask.	44	35	59.2	--	*26.4
Male	29	28	*55.9	--	*29.0
Female	15	8	*71.0	--	--
Alta.	70	119	*31.5	*36.7	*26.2
Male	48	90	*29.1	*39.7	*27.1
Female	22	30	--	--	--
B.C.	109	230	49.5	*20.8	*28.3
Male	66	135	*41.6	*20.2	*35.8
Female	43	94	60.7	*21.7	--
<b>Canada</b>	<b>733</b>	<b>1,313</b>	<b>48.6</b>	<b>24.8</b>	<b>22.4</b>
<b>Male</b>	<b>483</b>	<b>887</b>	<b>43.2</b>	<b>25.5</b>	<b>25.6</b>
<b>Female</b>	<b>250</b>	<b>426</b>	<b>60.0</b>	<b>*23.3</b>	<b>*15.8</b>

\* High sampling variability      -- Data was suppressed in the source material      - Data not available

Source: Health and Welfare Canada (1990), National Alcohol and Other Drugs Survey (1989): Highlights Report, Edited by Marc Eliany, Dr. Norman Giesgrecht, Dr. Mike Nelson, Dr. Barry Wellman and Scot Wortley.

**TABLE B.4**

**PERCENTAGE OF POPULATION WHICH USED SELECTED LICIT DRUGS IN THE MONTH PRECEDING THE SURVEY, BY SEX, AGE 15 AND OVER, BY CANADA AND PROVINCES, 1989**

Province	Sample Size N	Pop. Est. (000's)	Sleeping Pills	Tranquilizers such as Valium	Diet pills or stimulants	Anti-depressants	Codeine demerol morphine
Nfld.	961	427	*2.1%	*1.6%	--	*1.4%	4.4%
Male	446	211	--	--	--	--	*4.2
Female	515	216	*2.2	*2.5	--	--	*4.6
P.E.I.	828	98	*1.9	*2.2	--	--	*2.8
Male	412	48	--	--	--	--	*3.3
Female	416	50	--	--	--	--	--
N.S.	1,259	690	*2.3	3.4	--	*2.9	4.9
Male	557	336	--	*3.6	--	--	*4.2
Female	702	354	*2.7	*3.2	--	*4.2	*5.6
N.B.	812	552	*3.2	*3.9	--	--	*3.4
Male	386	269	--	--	--	--	*4.2
Female	426	283	*4.0	*5.8	--	--	*2.6
Que.	1,808	5,237	4.5	4.3	*0.6	2.2	*1.7
Male	789	2,541	*2.9	*2.5	--	*1.6	*1.6
Female	1,019	2,697	6.1	5.9	--	*2.8	*1.8
Ont.	1,974	7,486	3.4	3.3	*1.1	1.9	6.3
Male	899	3,653	*2.4	*1.6	--	*1.4	5.4
Female	1,075	3,832	4.3	4.9	*1.7	*2.3	7.2
Man.	947	830	*3.4	*2.3	--	*2.4	5.9
Male	418	406	*3.1	--	--	*2.4	*4.9
Female	529	425	*3.7	*3.4	--	*2.4	*6.8
Sask.	921	748	*1.9	*1.3	--	*1.8	5.2
Male	412	370	--	--	--	*2.6	*4.0
Female	509	378	*2.3	--	--	--	*6.4
Alta.	992	1,826	*3.4	*2.1	--	*1.6	7.6
Male	460	911	*3.5	--	--	--	*6.3
Female	532	916	*3.2	*3.0	--	*2.2	8.9
B.C.	1,132	2,390	3.7	*1.5	--	*1.8	6.7
Male	512	1,174	*2.0	--	--	--	*5.5
Female	620	1,215	*5.4	--	--	*2.4	7.8
<b>Canada</b>	<b>11,634</b>	<b>20,285</b>	<b>3.6</b>	<b>3.1</b>	<b>0.9</b>	<b>2.0</b>	<b>5.0</b>
<b>Male</b>	<b>5,291</b>	<b>9,920</b>	<b>2.5</b>	<b>1.8</b>	<b>*0.5</b>	<b>1.5</b>	<b>4.3</b>
<b>Female</b>	<b>6,343</b>	<b>10,365</b>	<b>4.6</b>	<b>4.3</b>	<b>1.2</b>	<b>2.4</b>	<b>5.7</b>

\* High sampling variability

-- Data was suppressed in the source material

Source: Health and Welfare Canada (1990), National Alcohol and Other Drugs Survey (1989): Highlights Report, Edited by Marc Eliany, Dr. Norman Giesgrecht, Dr. Mike Nelson, Dr. Barry Wellman and Scot Wortley.

**TABLE B.5**

**PERCENTAGE OF POPULATION WHICH USED SELECTED LICIT DRUGS IN THE MONTH PRECEDING THE SURVEY, AGE AND SEX, CANADA, 1989**

Age	Sample Size N	Pop. Est. (000's)	Sleeping Pills	Tranquilizers such as Valium	Diet Pills or stimulants	Anti-depressants	Codeine demerol morphine
Total 15+	11,634	20,285	3.6%	3.1%	0.9%	2.0%	5.0%
Male	5,291	9,920	2.5	1.8	*0.5	1.5	4.3
Female	6,343	10,365	4.6	4.3	*1.2	2.4	5.7
15-19	838	1,866	--	--	--	--	*4.9
Male	412	956	--	--	--	--	*4.5
Female	426	910	--	--	--	--	*5.4
20-24	1,049	2,034	--	*1.4	--	--	6.2
Male	489	1,027	--	--	--	--	*6.0
Female	560	1,007	--	--	--	--	*6.4
25-34	3,059	4,670	*1.3	*1.4	*0.8	*1.3	5.6
Male	1,396	2,318	--	--	--	--	5.3
Female	1,663	2,352	*1.6	*1.8	--	*1.7	5.9
35-44	2,352	3,962	*2.4	*2.6	*1.4	*2.1	5.8
Male	1,152	1,971	*1.9	*1.7	--	*2.1	*4.5
Female	1,200	1,991	*2.9	*3.5	*2.4	*2.1	7.1
45-54	1,371	2,701	4.5	5.0	--	*2.8	*4.1
Male	673	1,349	--	*2.9	--	--	*3.6
Female	698	1,352	*7.1	*7.1	--	*3.8	*4.7
55-64	1,207	2,334	*4.6	6.0	--	*3.3	*3.7
Male	529	1,137	*3.0	--	--	--	--
Female	678	1,197	*6.2	9.6	--	*4.8	*5.2
65+	1,758	2,718	11.1	5.4	--	*2.9	*4.0
Male	640	1,162	10.3	*3.5	--	*2.6	*3.3
Female	1,118	1,557	11.6	*6.8	--	*3.2	*4.5

\* High sampling variability

-- Data was suppressed in the source material

- Data not available

Source: Health and Welfare Canada (1990), National Alcohol and Other Drugs Survey (1989): Highlights Report, Edited by Marc Eliany, Dr. Norman Giesgrecht, Dr. Mike Nelson, Dr. Barry Wellman and Scot Wortley.

TABLE B.6

**PERCENTAGE OF POPULATION WHICH USED SELECTED LICIT DRUGS  
IN THE MONTH PRECEDING THE SURVEY, BY EDUCATION, INCOME  
AND SEX, AGE 15 AND OVER, CANADA, 1989**

	Sample Size N	Pop. Est. (000's)	Sleeping Pills	Tranquil-- lizers such as Valium	Diet Pills or Stimu-- lants	Anti-- depress-- ants	Codeine demerol morphine
Total Population	11,634	20,285	3.6%	3.1%	0.9%	2.0%	5.0%
Male	5,291	9,920	2.5	1.8	*0.5	1.5	4.3
Female	6,343	10,365	4.6	4.3	1.2	2.4	5.7
<b>EDUCATION:</b>							
Secondary or Less	7,257	12,412	4.4	3.7	1.0	2.1	4.8
Male	3,312	5,946	3.1	2.0	*0.6	*1.3	3.8
Female	3,945	6,466	5.6	5.2	*1.3	2.8	5.7
Some Post--secondary	1,360	2,470	*1.9	*1.9	--	*1.5	5.4
Male	630	1,235	--	--	--	*2.3	*5.2
Female	730	1,235	*2.5	*2.9	--	--	*5.5
Post--secondary Degree	2,910	5,160	2.5	2.3	*0.9	*1.8	5.7
Male	1,311	2,642	*1.9	*1.7	--	*1.5	5.3
Female	1,599	2,518	*3.2	*3.0	*1.4	*2.1	6.2
<b>INCOME:</b>							
<\$10,000	837	914	*8.9%	*6.8%	--	*4.2%	*7.2%
Male	249	314	--	--	--	--	--
Female	588	599	*9.3	*8.7	--	*5.0	*7.1
\$10,000--\$19,999	2,122	2,885	6.5	4.9	*0.9	*2.7	4.9
Male	832	1,194	*6.0	*2.4	--	*2.5	*4.3
Female	1,290	1,691	*6.8	6.6	--	*2.8	*5.2
\$20,000--\$39,999	3,495	5,601	3.5	4.1	*0.9	2.3	4.7
Male	1,687	2,812	*2.4	*2.7	--	*1.5	*3.8
Female	1,808	2,788	4.7	5.4	*1.2	*3.1	5.7
\$40,000+	3,546	7,711	2.0	1.7	*0.9	*1.3	6.0
Male	1,930	4,345	*1.6	*1.2	--	*1.2	5.3
Female	1,616	3,366	*2.4	*2.4	*1.5	*1.3	6.9

\* High sampling variability

-- Data was suppressed in the source book

- Data not available

Source: Health and Welfare Canada (1990), National Alcohol and Other Drugs Survey (1989); Highlights Report, Edited by Marc Eliany, Dr. Norman Giesgrecht, Dr. Mike Nelson, Dr. Barry Wellman and Scot Wortley.



TABLE B.7

**PUBLIC OPINION OF CANADIANS CONCERNING GOVERNMENT POLICY RELATING TO ALCOHOL AND DRUG USE, BY SEX, AGE 15 AND OVER, CANADA, 1989**

	Sample Size N	Pop. Est. (000's)	Responses			
			Increase	Same	Decrease	Don't Know
Taxes on Alcohol	11,556	20,090	27.0%	46.1%	18.1%	8.8%
Male	5,262	9,845	23.7	45.4	24.5	6.5
Female	6,294	10,246	30.2	46.7	12.1	11.0
Beer/Liquor Store Hours	11,547	20,074	7.2	69.9	17.3	5.7
Male	5,258	9,836	10.5	71.7	13.6	4.2
Female	6,289	10,239	4.0	68.1	20.8	7.1
Legal Drinking Age	11,556	20,100	49.7	44.9	2.8	2.5
Male	5,263	9,855	45.7	48.1	4.0	2.1
Female	6,293	10,245	53.6	41.9	1.6	3.0
Effort to Prevent Serving Drunks	11,544	20,067	82.1	10.1	3.1	4.8
Male	5,257	9,835	80.0	12.7	3.2	4.1
Female	6,287	10,231	84.1	7.5	3.0	5.5
Government's Advertising Against Drinking	11,545	20,076	61.1	28.0	6.4	4.6
Male	5,257	9,834	55.6	32.9	7.0	4.5
Female	6,288	10,242	66.3	23.3	5.7	4.7
Alcohol and Drug and Prevention	11,553	20,082	81.0	12.8	1.1	5.2
Male	5,260	9,838	78.7	15.0	1.3	5.0
Female	6,293	10,244	83.2	10.7	*0.8	5.3
Treatment Programs	11,550	20,064	74.1	13.6	0.8	11.5
Male	5,258	9,824	71.2	16.0	*0.9	11.8
Female	6,292	10,240	76.9	11.2	*0.6	11.2

\* High sampling variability

Source: Health and Welfare Canada (1990), National Alcohol and Other Drugs Survey (1989): Highlights Report, Edited by Marc Eliany, Dr. Norman Giesgrecht, Dr. Mike Nelson, Dr. Barry Wellman and Scot Wortley.



**TABLE B.8**

**PUBLIC OPINION OF CANADIANS REGARDING ALCOHOL AND DRUG POLICY ISSUES, BY SEX, AGE 15 AND OVER, CANADA, 1989**

	Sample Size N	Pop. Est. (000's)	Responses		
			Yes	No	Don't Know
Should Alcohol Be Sold in Corner Stores?	11,563	20,123	23.4%	73.6%	3.1%
Male	5,262	9,846	33.5	63.7	2.9
Female	6,301	10,276	13.7	83.1	3.2
Should Alcohol Have Warning Labels?	11,563	20,120	74.4	22.5	3.1
Male	5,262	9,852	68.8	28.5	2.7
Female	6,301	10,268	79.8	16.8	3.5
Should Government Stop Alcohol Ads on TV?	11,565	20,121	50.5	43.6	5.8
Male	5,264	9,853	42.6	52.4	5.0
Female	6,301	10,268	58.2	35.2	6.6
Should Government Stop Alcohol—Sponsored Events?	11,560	20,112	33.1	58.7	8.2
Male	5,261	9,847	26.4	67.9	5.6
Female	6,299	10,265	39.5	49.8	10.7
Should Possession of Marijuana be Criminal?	11,540	20,067	54.4	35.3	10.3
Male	5,252	9,815	50.8	40.4	8.9
Female	6,288	10,253	58.0	30.4	11.6

\* High sampling variability

Source: Health and Welfare Canada (1990), National Alcohol and Other Drugs Survey (1989): Highlights Report, Edited by Marc Eliany, Dr. Norman Giesgrecht, Dr. Mike Nelson, Dr. Barry Wellman and Scot Wortley.

**TABLE B.9**

**MARIJUANA AND COCAINE USE BY SEX, AGE 15 AND OVER,  
YUKON AND CANADA <sup>1</sup> COMPARED, 1990**

	Percentage Responding 'Yes'	
	Male	Female
<b>Have you <u>ever</u> used Marijuana or Hashish?</b>		
Yukon	49.5%	43.8%
Canada	28.9	17.7
<b>Have you used Marijuana or Hashish in the past twelve months?</b>		
Yukon	19.6	12.8
Canada	9.0	4.1
<b>Have you <u>ever</u> used Cocaine?</b>		
Yukon	18.3	12.9
Canada	4.5	2.7
<b>Have you used Cocaine in the past twelve months?</b>		
Yukon	3.2	--
Canada	--	--

-- Data was suppressed in the source material

<sup>1</sup> Data for Canada is from the 1989 National Alcohol and Other Drugs Survey.

Source: Bureau of Statistics, Executive Council Office, the Yukon Government, Yukon Alcohol and Drug Survey, Volume 1 Technical Report (Yukon: Bureau of Statistics, May, 1991).

**Chapter C** \_\_\_\_\_  
**ALCOHOL CONSUMPTION IN CANADA**

## Chapter C

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# ALCOHOL CONSUMPTION IN CANADA

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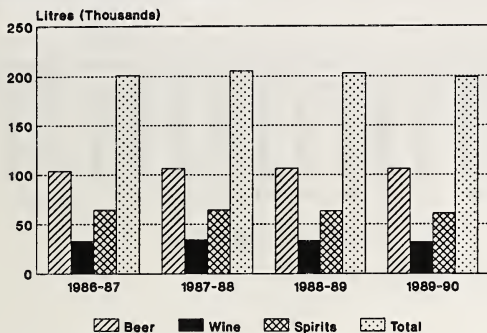
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## C. ALCOHOL CONSUMPTION IN CANADA

### Highlights

**Figure C.1**  
**Consumption of Absolute Alcohol<sup>1</sup> by Beverage Type, Canada, 1986-87 to 1989-90**



Fiscal year April 1 to March 31

During this four-year period, the percentage of absolute alcohol consumed as beer, out of the total, increased steadily: 51.7%, 51.8%, 52.3% and 53.2%. On the other hand, spirits accounted for a decreased share of absolute alcohol dropping from 32.0% to 30.7% over the same period<sup>2</sup> (Table C.2).

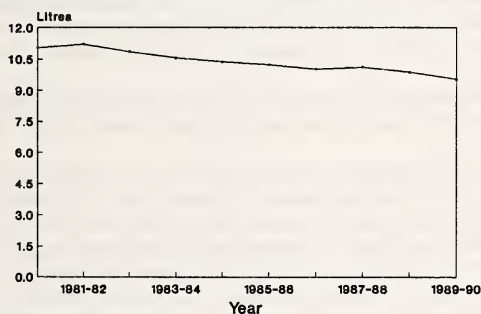
Regionally in 1989-90, beer consumption represented the largest proportion of absolute alcohol consumption in Quebec, Newfoundland and New Brunswick with 60.4%, 59.0% and 58.8% respectively (Table C.2). Wine as a percentage of total absolute alcohol consumption is largest in British Columbia (22.4%) and Quebec (22.3%) (Table C.2). Quebec was the only province that derived a smaller percentage of absolute alcohol from spirits than wine (17.3% from spirits). All of the other provinces derived at least 30% from spirit sales with the highest proportion in the Northwest Territories (47.3%) (Table C.2).

The general declining trend in per capita consumption of absolute alcohol for those aged 15 and over continued in 1989-90 (Figure C.2, Table C.3). The national consumption level was 9.5 litres during the year, a decline of 3.3% from a year earlier and 13.5% from the level recorded in 1980-81. Yukon and Northwest Territories again registered the highest per capita consumption in 1989-90, 17.4 litres and 12.4 litres respectively (Figure C.3, Table C.3). British Columbia followed with 10.9 litres and Newfoundland, Ontario and Alberta all registered 10.1 litres of absolute alcohol per year (Figure C.3, Table C.3).

Canadians consumed a total of 198.6 million litres of absolute alcohol in 1989-90, a decline of 2.1% from the previous year (Figure C.1, Table C.1). Beer remained the predominant alcoholic beverage, accounting for 105.7 million litres (or 53.2%) of the total absolute alcohol consumed during the year. Spirits placed second with 60.9 million litres (or 30.7%), and 32.0 million litres (or 16.1%) of absolute alcohol were consumed in the form of wine (Table C.1).

As illustrated by Figure C.1, absolute alcohol consumption in Canada fluctuated marginally between 1986-87 and 1989-90. However, 1989-90 represented the second year in a row for a decline in total absolute alcohol consumed.

**Figure C.2**  
**Litres of Absolute Alcohol<sup>1</sup> Per Person Aged 15 and Over, Canada, 1980-81 to 1989-90**

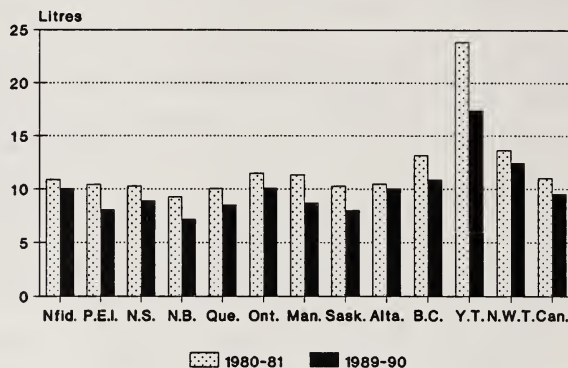


Fiscal year April 1 to March 31



**Figure C.3**  
**Consumption of Absolute Alcohol<sup>1</sup> Per Person Aged 15 and Over, Canada and Provinces, 1980-81 and 1989-90**

All regions of Canada, however, consumed less absolute alcohol in 1989-90 on a per capita basis, than their respective levels in 1980-81 (Figure C.3). Despite a fluctuating trend over this period, the Yukon experienced a decline of 27% from the 1980-81 level. Prince Edward Island, New Brunswick, Manitoba and Saskatchewan all declined by over 20% during the same period. The Northwest Territories experienced the smallest decline at 8.9%.



Fiscal year April 1 to March 31

## Explanatory Notes

The Government of Canada regulates various production aspects, as well as import and export, of alcoholic beverages. All retail sales, however, are made either by provincial liquor authorities or vendors with licences or permits issued by these authorities. Therefore, sales include all liquor sold in each jurisdiction including liquor board stores, and special liquor vendors, as well as commercial licensed outlets such as bars and restaurants.

The data reported are based on sales figures which are most widely used in estimating the consumption of alcohol. However, there are potential sources of error and bias. Sales figures do not include or reflect the impact of unrecorded home production of alcohol, consumption of non-beverage alcohol, consumption by non-residents and tourists, or imports for personal use (Single and Giesbrecht, 1979).

A bias may also be introduced by the conversion factors employed in calculating the absolute alcohol. Recent years have seen the widespread use of beers, wines and coolers with that have lower alcohol contents.

The per capita sales data are based on the alcohol consumption of individuals aged 15 and over versus that of the total population. Although age 15 is below the legal drinking age of all provinces, surveys indicate that many Canadian youths aged less than 18 do consume alcohol. For example, an Ontario survey conducted in 1989 suggested that 82% of young people aged 16-17 and 65% of those aged 14-15 had reported alcohol use during the prior year (Smart and Adlaf, 1989). However, the proportion of youth who drink is directly related to age, thus a cut-off is necessary in order to avoid a downward bias in consumption. In accordance with the practice of Health and Welfare Canada, age 15 is widely used as the cut off age.

<sup>1</sup> To convert litres of beverage to litres of absolute alcohol the following average values were employed: beer - 5% alcohol by volume, wine - 13% and spirits - 40%.

<sup>2</sup> The corresponding figures for wine were: 16.4% for 1986-87, 16.7% for 1987-88, 16.4% for 1988-89 and 16.1% for 1989-90.

## **References**

E. Single and N. Giesbrecht, The 16 percent solution and other mysteries concerning the accuracy of alcohol consumption estimates based on sales data. British Journal of Addictions, 1979, 74, 165-173.

R.G. Smart and E.M. Adlaf, The Ontario Student Drug Use Survey: Trends Between 1977-1989 (Toronto: Alcoholism and Drug Addiction Research Foundation, 1989).

Statistics Canada, The Control and Sale of Alcoholic Beverages in Canada 1984, 1985 and 1986 (Ottawa: Statistics Canada, Catalogue No. 63-202, 1986, 1987 and 1989 respectively). Additional data was obtained from the Public Institutions Division, Statistics Canada.

TABLE C.1

**APPARENT CONSUMPTION OF BEVERAGE ALCOHOL,  
CANADA AND PROVINCES, 1986-87 TO 1989-90**

1986-87				
Province	Thousands of Litres of Absolute Alcohol <sup>1</sup> in:			
	Beer	Wine	Spirits	Total
Nfld.	2,569.3	219.8	1,482.4	4,271.5
P.E.I.	434.7	77.2	312.8	824.7
N.S.	3,110.7	727.0	2,472.8	6,310.5
N.B.	2,435.1	424.7	1,351.6	4,211.4
Que.	26,904.1	9,433.5	8,684.4	45,022.0
Ont.	40,281.0	11,099.8	25,554.4	76,935.2
Man.	4,081.1	969.3	3,030.8	8,081.1
Sask.	3,162.4	663.3	3,021.2	6,846.9
Alta.	8,751.2	2,921.1	8,560.4	20,232.6
B.C.	11,677.5	6,249.6	9,470.4	27,397.5
Yukon	165.2	46.3	113.6	325.1
N.W.T.	209.4	35.1	192.8	437.3
<b>Canada</b>	<b>103,781.5</b>	<b>32,866.6</b>	<b>64,247.6</b>	<b>200,895.7</b>

1987-88				
Province	Thousands of Litres of Absolute Alcohol <sup>1</sup> in:			
	Beer	Wine	Spirits	Total
Nfld.	2,674.9	228.8	1,530.8	4,434.5
P.E.I.	430.5	73.3	309.6	813.4
N.S.	3,148.9	789.6	2,302.0	6,240.5
N.B.	2,464.6	431.3	1,293.2	4,189.1
Que.	27,883.7	10,191.2	8,771.6	46,846.5
Ont.	42,078.3	11,680.0	26,864.0	80,622.2
Man.	4,045.3	883.9	3,119.2	8,048.3
Sask.	3,091.4	663.4	2,973.6	6,728.3
Alta.	8,603.8	2,806.2	8,050.4	19,460.4
B.C.	11,676.9	6,526.5	9,038.8	27,242.2
Yukon	179.8	50.3	123.6	353.7
N.W.T.	210.4	35.8	198.4	444.5
<b>Canada</b>	<b>106,488.2</b>	<b>34,360.3</b>	<b>64,575.2</b>	<b>205,423.7</b>

TABLE C.1 (Concluded)

APPARENT CONSUMPTION OF BEVERAGE ALCOHOL,  
CANADA AND PROVINCES, 1985-86 TO 1989-90

1988-89				
Province	Thousands of Litres of Absolute Alcohol <sup>1</sup> in:			
	Beer	Wine	Spirits	Total
Nfld.	2,716.8	209.7	1,566.8	4,493.2
P.E.I.	430.9	72.7	312.0	815.6
N.S.	3,123.7	697.3	2,540.8	6,361.8
N.B.	2,392.1	450.8	1,251.2	4,094.1
Que.	27,716.8	10,509.2	8,519.6	46,745.6
Ont.	41,828.5	11,016.3	26,890.8	79,735.6
Man.	3,979.8	794.2	3,001.6	7,775.5
Sask.	3,184.1	569.5	2,800.4	6,554.0
Alta.	8,651.4	2,730.3	7,778.0	19,159.7
B.C.	11,658.5	6,138.3	8,606.4	26,403.2
Yukon	178.5	42.9	114.0	335.4
N.W.T.	213.6	35.4	206.4	455.3
<b>Canada</b>	<b>106,074.3</b>	<b>33,266.6</b>	<b>63,588.0</b>	<b>202,928.9</b>

1989-90				
Province	Thousands of Litres of Absolute Alcohol <sup>1</sup> in:			
	Beer	Wine	Spirits	Total
Nfld.	2,588.2	206.2	1,593.2	4,387.6
P.E.I.	423.1	77.5	308.4	808.9
N.S.	3,115.7	665.5	2,493.2	6,274.3
N.B.	2,385.4	452.4	1,215.6	4,053.4
Que.	27,677.0	10,216.6	7,899.6	45,793.1
Ont.	41,491.2	10,406.6	25,546.4	77,444.2
Man.	3,723.8	748.9	2,900.0	7,372.7
Sask.	2,897.8	531.6	2,656.4	6,085.7
Alta.	8,641.9	2,610.4	7,550.0	18,802.3
B.C.	12,346.5	5,998.6	8,465.2	26,810.3
Yukon	180.9	43.7	107.2	331.7
N.W.T.	204.4	33.4	213.2	451.0
<b>Canada</b>	<b>105,675.6</b>	<b>31,991.3</b>	<b>60,948.4</b>	<b>198,615.3</b>

<sup>1</sup> To convert litres of beverage to litres of absolute alcohol the following values were employed: beer- 5% alcohol by volume, wine -13% and spirits - 40%.

Source: Based on data obtained from the Public Institutions Division, Statistics Canada.



TABLE C.2

PERCENTAGE CONTRIBUTION OF EACH BEVERAGE<sup>1</sup> TO THE APPARENT TOTAL ALCOHOL CONSUMPTION, CANADA AND PROVINCES, 1986-87 TO 1989-90

Province	Beer (%)				Wine (%)				Spirits (%)			
	1986-87	1987-88	1988-89	1989-90	1986-87	1987-88	1988-89	1989-90	1986-87	1987-88	1988-89	1989-90
Nfld.	60.1	60.3	60.5	59.0	5.1	5.2	4.7	4.7	34.7	34.5	34.9	36.3
P.E.I.	52.7	52.9	52.8	52.3	9.4	9.0	8.9	9.6	37.9	38.1	38.3	38.1
N.S.	49.3	50.5	49.1	49.7	11.5	12.7	11.0	10.6	39.2	36.9	39.9	39.7
N.B.	57.8	58.8	58.4	58.8	10.1	10.3	11.0	11.2	32.1	30.9	30.6	30.0
Que.	59.8	59.5	59.3	60.4	21.0	21.8	22.5	22.3	19.3	18.7	18.2	17.3
Ont.	52.4	52.2	52.5	53.6	14.4	14.5	13.8	13.4	33.2	33.3	33.7	33.0
Man.	50.5	50.3	51.2	50.5	12.0	11.0	10.2	10.2	37.5	38.8	38.6	39.3
Sask.	46.2	45.9	48.6	47.6	9.7	9.9	8.7	8.7	44.1	44.2	42.7	43.6
Alta.	43.3	44.2	45.2	46.0	14.4	14.4	14.3	13.9	42.3	41.4	40.6	40.2
B.C.	42.6	42.9	44.2	46.1	22.8	24.0	23.2	22.4	34.6	33.2	32.6	31.6
Yukon	50.8	50.8	53.2	54.5	14.2	14.2	12.8	13.2	34.9	34.9	34.0	32.3
N.W.T.	47.9	47.3	46.9	45.3	8.0	8.0	7.8	7.4	44.1	44.6	45.3	47.3
<b>Canada</b>	<b>51.7</b>	<b>51.8</b>	<b>52.3</b>	<b>53.2</b>	<b>16.4</b>	<b>16.7</b>	<b>16.4</b>	<b>16.1</b>	<b>32.0</b>	<b>31.4</b>	<b>31.3</b>	<b>30.7</b>

<sup>1</sup> See corresponding footnote in Table C.1.

Sources: Statistics Canada, *The Control and Sale of Alcoholic Beverages in Canada 1984, 1985, and 1986* (Ottawa: Statistics Canada, Catalogue No. 63-202, 1986, 1987 and 1989 respectively). Additional data was obtained from the Public Institutions Division, Statistics Canada.



TABLE C.3

LITRES OF ABSOLUTE ALCOHOL<sup>1</sup> PER PERSON AGED 15 AND OVER,  
CANADA AND PROVINCES, 1980-81 TO 1989-90

Province	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
Nfld.	10.87	10.66	10.66	10.23	10.13	9.14	10.11	10.42	10.44	10.06
P.E.I.	10.40	9.37	9.58	9.09	9.06	8.79	8.47	8.28	8.20	8.04
N.S.	10.26	10.08	9.89	9.57	9.48	9.30	9.16	8.97	9.09	8.91
N.B.	9.27	8.92	8.84	8.31	8.17	7.96	7.66	7.56	7.33	7.17
Que.	10.03	9.79	9.24	9.28	9.17	9.02	8.64	8.90	8.81	8.54
Ont.	11.47	11.40	11.19	10.88	10.64	10.65	10.56	10.85	10.56	10.10
Man.	11.35	11.22	10.86	10.41	10.51	10.19	9.69	9.57	9.21	8.72
Sask.	10.28	9.99	10.00	9.78	9.51	9.29	8.96	8.78	8.60	8.01
Alta.	10.45	13.62	13.01	12.24	11.76	11.82	11.18	10.70	10.39	10.06
B.C.	13.19	13.39	12.87	12.27	12.12	11.73	11.87	11.60	11.00	10.89
Yukon	23.81	21.15	19.39	18.18	18.47	17.78	18.06	18.81	17.74	17.37
N.W.T.	13.64	13.94	13.99	13.65	13.90	13.30	12.56	12.77	12.93	12.42
<b>Canada</b>	<b>11.03</b>	<b>11.21</b>	<b>10.86</b>	<b>10.55</b>	<b>10.36</b>	<b>10.23</b>	<b>10.03</b>	<b>10.12</b>	<b>9.87</b>	<b>9.54</b>

<sup>1</sup> See corresponding footnote in Table C.1.

Sources: Statistics Canada, *The Control and Sale of Alcoholic Beverages in Canada 1984, 1985 and 1986* (Ottawa: Statistics Canada, Catalogue No. 63-202, 1986, 1987 and 1989 respectively). Additional data was obtained from the Public Institutions Division, Statistics Canada.

TABLE C.4

CONSUMPTION OF ALCOHOLIC BEVERAGES,<sup>1</sup> IN DRINKS<sup>2</sup> PER WEEK, PER PERSON AGED 15 AND OVER, CANADA, PROVINCES AND TERRITORIES 1980-81 TO 1989-90

Province	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
Nfld.	12.3	12.1	12.1	11.6	11.5	10.3	11.4	11.8	11.8	11.4
P.E.I.	11.8	10.6	10.8	10.3	10.3	9.9	9.6	9.4	9.3	9.1
N.S.	11.6	11.4	11.2	10.8	10.7	10.5	10.4	10.2	10.3	10.1
N.B.	10.5	10.1	10.0	9.4	9.2	9.0	8.7	8.6	8.3	8.1
Que.	11.3	11.1	10.5	10.5	10.4	10.2	9.8	10.1	10.0	9.7
Ont.	13.0	12.9	12.7	12.3	12.0	12.0	11.9	12.3	11.9	11.4
Man.	12.8	12.7	12.3	11.8	11.9	11.5	11.0	10.8	10.4	9.9
Sask.	11.6	11.3	11.3	11.1	10.8	10.5	10.1	9.9	9.7	9.1
Alta.	11.8	15.4	14.7	13.8	13.3	13.4	12.6	12.1	11.8	11.4
B.C.	14.9	15.1	14.6	13.9	13.7	13.3	13.4	13.1	12.4	12.3
Yukon	26.9	23.9	21.9	20.6	20.9	20.1	20.4	21.3	20.1	19.6
N.W.T.	15.4	15.8	15.8	15.4	15.7	15.0	14.2	14.4	14.6	14.1
Canada	12.5	12.7	12.3	11.9	11.7	11.6	11.3	11.5	11.2	10.8

<sup>1</sup> See corresponding footnote in Table C.1.

<sup>2</sup> One drink = 1.7 cl (0.6 oz) of absolute alcohol.

Sources: Statistics Canada, The Control and Sale of Alcoholic Beverages in Canada, 1984, 1985 and 1986 (Ottawa: Statistics Canada, Catalogue No. 63-202, 1986, 1987 and 1989 respectively). Additional data was obtained from the Public Institutions Division, Statistics Canada.

**Chapter D** \_\_\_\_\_  
**ECONOMICS**

## Chapter D

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# ECONOMICS

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## D. ECONOMICS

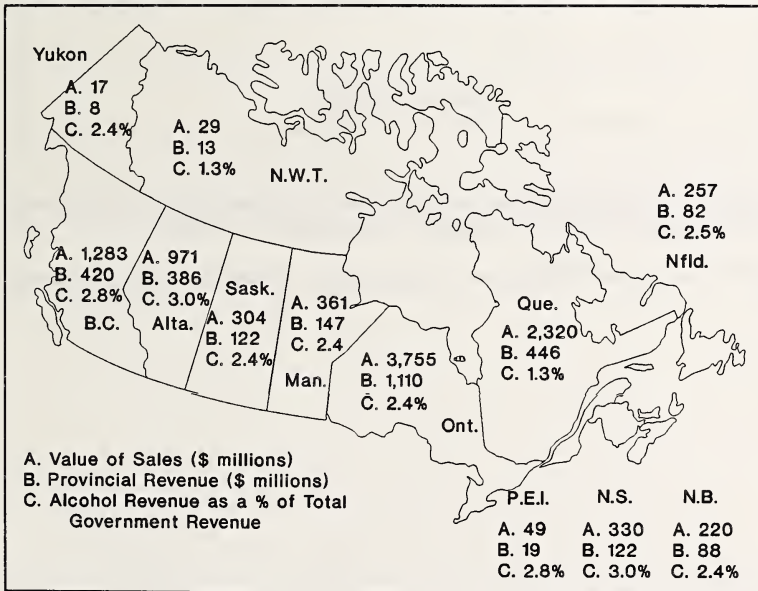
### Highlights

In 1989-90, the value of sales of alcoholic beverages was \$9,896 million (Table D.1). This represents an increase of \$311 million (3% increase) from 1988-89. Sales of beer accounted for \$4,981 million (50% of total), spirits \$3,174 million (32%), and wine \$1,741 million (18%). Since 1980-81, the total value of sales has increased by 85% (Table D.2).

Control and sale of alcoholic beverages also generates significant revenue for provincial/territorial governments. Total government revenue (including net income from sales, liquor sales tax, licences, permits, fines and confiscations) amounted to \$2,963 million in 1989-90 an increase of \$56 million (1.9%) from the previous year (Table D.3). This represents 2.2% of all revenue raised by provincial governments. While alcohol as a source of government revenue is lowest in Quebec and the Northwest Territories at 1.3%, it is highest in Nova Scotia and Alberta at 3.0% (Figure D.1). Federally, an additional \$937 million is derived from the excise duty, excise tax and various import duties (see footnote 2 in Table D.3).

An unestimated amount of revenue is also derived from the federal general sales tax; sales taxes levied in each province; and from corporation taxes paid by various alcohol producers.

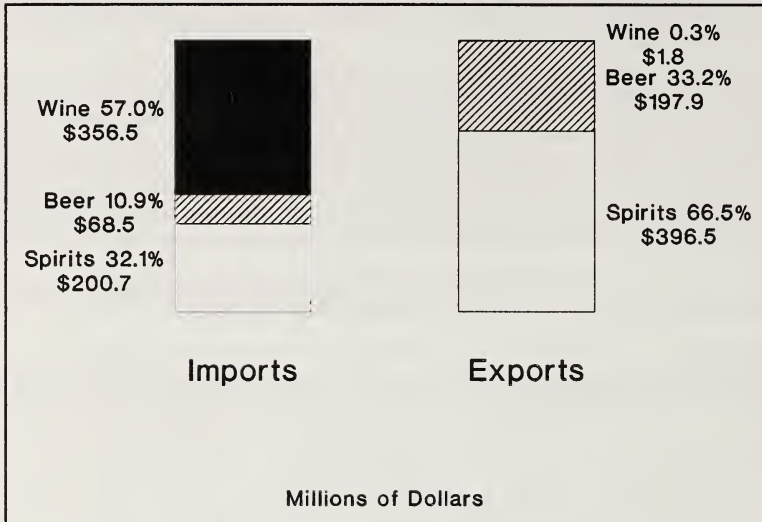
**Figure D.1**  
**Value of Sales and Government Revenue from Alcoholic Beverages by Province, 1989-90**





Imports<sup>1</sup> of alcoholic beverages in 1989-90 were valued at \$626 million, an increase of almost \$131 million (26%) from the previous year (Table D.4). Wine accounted for 57% of the total value, spirits 32% and beer 11% (Figure D.2). Total exports<sup>2</sup> of alcoholic beverages rose from the low level recorded in 1988-89 to \$596 million dollars in 1989-90, an increase of \$123 million (26%). Over two thirds (67%) of this value consisted of exports of spirits, beer represented 33%, and wine less than one percent (Figure D.2)

**Figure D.2**  
**Value of Imports<sup>1</sup> and Exports<sup>2</sup> of Alcoholic Beverages Canada, 1989-90**



In 1988 there were 19,754 workers (both production and non-production employees) employed by alcohol producing companies with total salaries and wages of \$744 million (Table D.5)

Finally, Table D.6 shows representative prices for illegal drugs at successive stages of trafficking in Canada during 1989.

<sup>1</sup> Values are based upon the prices in the country of origin.

<sup>2</sup> Does not include foreign products that were re-exported.

## References

Statistics Canada, Control and Sale of Alcoholic Beverages in Canada 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986 (Ottawa: Statistics Canada, Catalogue No. 63-202, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987 and 1989 respectively).

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Statistics Canada, Beverage and Tobacco Products Industries, 1985, 1986, 1987 and 1988 (Ottawa: Statistics Canada Catalogue No. 32-251, 1988, 1989, 1990 and 1991 respectively).

Drug Enforcement Directorate, Royal Canadian Mounted Police, National Drug Intelligence Estimate 1990 (Ottawa: Ministry of Supply and Services Canada, 1991).

TABLE D.1

**DOLLAR<sup>1</sup> SALES OF ALCOHOL BY BEVERAGE TYPE,  
CANADA AND PROVINCES, 1986-87 TO 1989-90**

Province	1986-87			
	Thousands of Dollars			
	Beer	Wine	Spirits	Total
Nfld.	144,391	11,777	69,602	225,770
P.E.I.	20,535	3,674	18,147	42,356
N.S.	128,033	33,780	123,365	285,178
N.B.	106,554	19,378	68,838	194,770
Que.	1,076,301	495,248	449,200	2,020,749
Ont.	1,512,180	516,746	1,189,772	3,218,698
Man.	153,185	43,770	152,923	349,878
Sask.	131,170	28,440	143,104	302,714
Alta.	348,857	134,854	392,876	876,587
B.C.	495,433	249,921	442,909	1,188,263
Yukon	7,393	2,386	6,587	16,366
N.W.T.	11,022	2,416	10,654	24,092
<b>Canada</b>	<b>4,135,054</b>	<b>1,542,390</b>	<b>3,067,977</b>	<b>8,745,421</b>

Province	1987-88			
	Thousands of Dollars			
	Beer	Wine	Spirits	Total
Nfld.	151,852	12,846	74,153	238,851
P.E.I.	22,578	3,979	18,223	44,780
N.S.	138,639	36,751	123,819	299,209
N.B.	114,032	20,441	69,060	203,533
Que.	1,115,529	545,638	454,698	2,115,865
Ont.	1,664,280	556,083	1,230,761	3,451,124
Man.	164,970	45,126	154,891	364,987
Sask.	134,202	29,402	146,435	310,039
Alta.	376,110	138,963	395,777	910,850
B.C.	514,369	271,809	439,322	1,225,500
Yukon	8,191	2,470	6,696	17,357
N.W.T.	11,923	2,560	10,912	25,395
<b>Canada</b>	<b>4,416,675</b>	<b>1,666,068</b>	<b>3,124,747</b>	<b>9,207,490</b>

TABLE D.1 (Concluded)

## DOLLAR<sup>1</sup> SALES OF ALCOHOL BY BEVERAGE TYPE, CANADA AND PROVINCES, 1986-87 TO 1989-90

Province	1988-89			
	Thousands of Dollars			
	Beer	Wine	Spirits	Total
Nfld.	164,211	13,151	77,850	255,212
P.E.I.	23,440	3,944	19,322	46,706
N.S.	143,371	33,734	129,749	306,854
N.B.	121,049	21,441	69,262	211,752
Que.	1,185,980	573,188	454,914	2,214,082
Ont.	1,812,889	578,505	1,241,687	3,633,081
Man.	172,106	43,287	151,747	367,140
Sask.	143,982	26,697	142,589	313,268
Alta.	404,133	139,950	411,686	955,769
B.C.	521,863	271,344	443,509	1,236,716
Yukon	8,830	2,560	7,089	18,479
N.W.T.	12,236	2,575	11,513	26,324
<b>Canada</b>	<b>4,714,090</b>	<b>1,710,376</b>	<b>3,160,917</b>	<b>9,585,383</b>

Province	1989-90			
	Thousands of Dollars			
	Beer	Wine	Spirits	Total
Nfld.	164,373	13,073	79,702	257,148
P.E.I.	24,828	4,060	19,806	48,694
N.S.	161,898	34,083	134,257	330,238
N.B.	127,478	22,073	70,517	220,068
Que.	1,284,887	598,340	436,963	2,320,190
Ont.	1,919,825	584,822	1,250,328	3,754,975
Man.	170,621	41,698	149,090	361,409
Sask.	138,346	24,770	140,402	303,518
Alta.	418,447	134,589	418,401	971,437
B.C.	548,713	278,423	455,993	1,283,129
Yukon	8,263	2,328	6,338	16,929
N.W.T.	13,673	2,578	12,352	28,603
<b>Canada</b>	<b>4,981,352</b>	<b>1,740,837</b>	<b>3,174,149</b>	<b>9,896,338</b>

<sup>1</sup> All values are expressed in current dollars (i.e. increases reflect the effects of inflation, tax increases etc.). Sales volumes can be found in Tables C.1 and C.3.

Source: Based on data obtained from the Public Institutions Division, Statistics Canada.



TABLE D.2

DOLLAR SALES<sup>1</sup> OF ALCOHOL, CANADA AND PROVINCES, 1980-81 TO 1989-90

Province	Thousands of Dollars										
	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	
Nfld.	138,364	163,748	184,883	197,901	211,661	198,691	225,770	238,851	255,212	257,148	
P.E.I.	27,867	32,632	36,216	38,476	40,386	41,019	42,356	44,780	46,706	48,694	
N.S.	190,612	216,354	239,511	244,270	261,147	273,601	285,178	299,209	306,854	330,238	
N.B.	137,801	150,410	166,765	176,148	183,942	187,746	194,770	203,533	211,752	220,068	
Que.	1,196,643	1,303,087	1,364,961	1,613,544	1,686,812	1,875,552	2,020,749	2,115,865	2,214,082	2,320,190	
Ont.	1,904,564	2,182,465	2,482,646	2,630,397	2,761,505	2,966,885	3,218,698	3,451,124	3,633,081	3,754,975	
Man.	219,778	245,576	288,819	303,939	326,817	337,371	349,878	364,987	367,140	361,409	
Sask.	187,730	218,220	249,647	277,539	290,240	297,550	302,714	310,039	313,268	303,518	
Alta.	490,933	732,070	821,032	862,272	857,280	893,896	876,587	910,850	955,769	971,437	
B.C.	797,769	910,650	983,898	1,009,679	1,044,248	1,107,441	1,188,263	1,225,500	1,236,716	1,283,129	
Yukon	13,594	14,534	14,219	14,141	14,825	14,941	16,366	17,357	18,479	16,929	
N.W.T.	15,185	17,750	20,199	22,060	23,517	24,926	24,092	25,395	26,324	28,603	
<b>Canada</b>	<b>5,320,840</b>	<b>6,187,496</b>	<b>6,852,796</b>	<b>7,390,366</b>	<b>7,702,380</b>	<b>8,219,609</b>	<b>8,745,421</b>	<b>9,207,490</b>	<b>9,585,383</b>	<b>9,896,338</b>	

<sup>1</sup> All values are expressed in current dollars (ie. increases reflect the effects of inflation, tax increases etc.). Sales volumes can be found in Tables C.1 and C.3.

Sources: Statistics Canada, *The Control and Sale of Alcoholic Beverages in Canada, 1984, 1985 and 1986* (Ottawa: Statistics Canada, Catalogue No. 63-202, 1986, 1987 and 1989 respectively). Additional data were obtained from the Public Institutions Division, Statistics Canada.



**TABLE D.3**

**PROVINCIAL<sup>1,2</sup> REVENUE DERIVED FROM THE CONTROL AND SALE OF ALCOHOLIC BEVERAGES, 1986-87 TO 1989-90**

Province	1986-87 (Thousands of Dollars)					% of Total Gov't Revenue
	Net Income From Sales	Liquor Sales Tax	Licences & Permits	Fines & Confiscations	Total Revenue	
Nfld.	35,810	-	38,255	295	74,360	3.0%
P.E.I.	8,902	8,073	25	436	17,436	3.3%
N.S.	106,644	-	6,363	605	113,612	3.6%
N.B.	73,521	-	4,968	120	78,609	2.8%
Que.	360,527	-	74,527	144	435,198	1.6%
Ont.	631,796	-	326,394	4	958,194	2.9%
Man.	138,449	-	4,442	-	142,891	3.2%
Sask.	120,854	-	2,553	-	123,407	3.2%
Alta.	315,933	-	8,087	-	324,020	3.1%
B.C.	343,765	-	101,531	-	445,296	4.0%
Yukon	4,853	1,755	63	-	6,671	2.4%
N.W.T.	10,031	-	149	-	10,180	1.3%
<b>Total</b>	<b>2,151,085</b>	<b>9,828</b>	<b>567,357</b>	<b>1,604</b>	<b>2,729,874</b>	<b>2.7%</b>

Province	1987-88 (Thousands of Dollars)					% of Total Gov't Revenue
	Net Income From Sales	Liquor Sales Tax	Licences & Permits	Fines & Confiscations	Total Revenue	
Nfld.	38,546	-	40,513	307	79,366	3.0%
P.E.I.	9,240	8,547	173	383	18,343	3.2%
N.S.	108,930	-	6,480	582	115,992	3.3%
N.B.	75,840	-	5,169	150	81,159	2.6%
Que.	369,976	-	58,836	102	428,914	1.4%
Ont.	635,884	-	356,122	21	992,027	2.7%
Man.	146,863	-	5,629	-	152,492	2.9%
Sask.	125,507	-	2,632	-	128,139	2.9%
Alta.	354,358	-	8,146	-	362,504	2.8%
B.C.	333,277	-	108,496	-	441,773	3.6%
Yukon	5,070	1,862	63	-	6,995	2.4%
N.W.T.	10,353	-	131	-	10,484	1.3%
<b>Total</b>	<b>2,213,844</b>	<b>10,409</b>	<b>592,390</b>	<b>1,545</b>	<b>2,818,188</b>	<b>2.5%</b>

TABLE D.3 (Concluded)

## PROVINCIAL<sup>1,2</sup> REVENUE DERIVED FROM THE CONTROL AND SALE OF ALCOHOLIC BEVERAGES, 1986-87 TO 1989-90

Province	1988-89 (Thousands of Dollars)					% of Total Gov't Revenue
	Net Income From Sales	Liquor Sales Tax	Licences & Permits	Fines & Confiscations	Total Revenue	
Nfld.	39,952	-	41,691	310	81,953	2.8%
P.E.I.	9,223	8,938	177	18	18,356	2.9%
N.S.	109,283	-	6,779	550	116,612	3.1%
N.B.	77,791	-	5,519	124	83,434	2.4%
Que.	381,290	-	59,737	55	441,082	1.3%
Ont.	653,849	-	405,570	26	1,059,445	2.6%
Man.	144,756	-	6,450	-	151,206	2.7%
Sask.	122,890	-	2,549	-	125,439	2.6%
Alta.	381,764	-	8,369	-	390,133	3.1%
B.C.	345,132	-	75,002	-	420,134	3.1%
Yukon	5,679	1,980	67	-	7,726	2.5%
N.W.T.	11,392	-	139	-	11,531	1.3%
<b>Total</b>	<b>2,283,001</b>	<b>10,918</b>	<b>612,049</b>	<b>1,083</b>	<b>2,907,051</b>	<b>2.4%</b>

Province	1989-90 (Thousands of Dollars)					% of Total Gov't Revenue
	Net Income From Sales	Liquor Sales Tax	Licences & Permits	Fines & Confiscations	Total Revenue	
Nfld.	39,558	-	42,217	335	82,110	2.5%
P.E.I.	9,541	9,328	176	20	19,065	2.8%
N.S.	114,537	-	6,976	355	121,868	3.0%
N.B.	81,668	-	5,860	100	87,628	2.4%
Que.	387,604	-	58,264	45	445,913	1.3%
Ont.	675,536	-	434,875	28	1,110,439	2.4%
Man.	138,767	-	8,227	-	146,994	2.4%
Sask.	120,665	-	1,112	-	121,777	2.4%
Alta.	384,411	-	1,836	-	386,247	3.0%
B.C.	415,598	-	4,811	-	420,409	2.8%
Yukon	5,856	2,031	70	-	7,957	2.4%
N.W.T.	12,567	-	122	-	12,689	1.3%
<b>Total</b>	<b>2,386,308</b>	<b>11,359</b>	<b>564,546</b>	<b>883</b>	<b>2,963,096</b>	<b>2.2%</b>

<sup>1</sup> Does not include revenue derived from provincial retail sales taxes.

<sup>2</sup> Federal revenue derived from the excise duty, excise tax and import duties is no longer reported in the same source as the above information. However, information from Statistics Canada's system of government financial management statistics estimates federal government revenue derived from the sale of alcohol beverages to be:

1986-87	\$1,016,000	'000's of dollars	Not included is federal revenue derived from the general
1987-88	\$1,013,000	'	sales tax or from corporation income tax.
1988-89	\$979,000	'	
1989-90	\$937,000	'	

Source: Data were obtained from the Public Institutions Division, Statistics Canada.

TABLE D.4

**VALUE OF IMPORTS<sup>1</sup> AND EXPORTS<sup>2</sup> OF ALCOHOLIC BEVERAGES, CANADA, 1974-75 TO 1989-90**

(Thousands of Dollars)

	Imports				Exports of Domestic Stock			
	Spirits	Wine	Beer	Total	Spirits	Wine	Beer	Total
1974-75	72,632	62,938	4,511	140,081	203,062	451	11,722	215,235
1975-76	76,611	86,544	6,435	169,590	238,731	325	17,341	256,397
1976-77	73,379	83,196	7,027	163,602	226,793	552	29,612	256,957
1977-78	90,111	124,770	8,725	223,606	278,126	497	34,557	313,180
1978-79	108,243	160,509	26,353	295,105	293,629	1,385	49,820	344,834
1979-80	119,308	153,905	8,827	282,040	290,989	1,374	77,046	369,409
1980-81	119,478	157,926	32,122	309,526	318,793	739	90,085	409,617
1981-82	148,680	174,622	12,279	335,581	343,667	1,022	112,406	457,095
1982-83	151,906	185,423	14,427	351,756	344,370	1,100	133,559	479,029
1983-84	135,739	171,816	18,863	326,418	375,715	1,126	142,749	519,590
1984-85	165,309	222,226	19,947	407,482	386,715	1,070	157,866	545,651
1985-86	153,449	218,006	51,242	422,697	345,166	1,382	172,232	518,780
1986-87	173,073	269,717	20,011	462,801	350,918	2,136	191,439	544,493
1987-88	151,796	281,969	28,497	462,262	353,064	2,708	187,047	542,819
1988-89	172,381	278,273	44,557	495,211	269,273	3,157	200,375	472,805
1989-90	200,744	356,493	68,481	625,718	396,502	1,780	197,869	596,151

<sup>1</sup> Values are based upon the prices in the country of origin.

<sup>2</sup> Does not include foreign products that were re-exported.

Sources: Statistics Canada, Control and Sale of Alcoholic Beverages in Canada 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, and 1986 (Ottawa: Statistics Canada, Catalogue No. 63-202, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987 and 1989 respectively). Additional data were obtained from the Public Institutions Division, Statistics Canada.



**TABLE D.5**

**TOTAL WORKERS, AND SALARIES AND WAGES IN ALCOHOL PRODUCTION AND RELATED ACTIVITIES<sup>1</sup>, CANADA, 1975 TO 1988**

Year	Number of Workers			
	Breweries	Wineries	Distilleries	Total Alcohol
1975	11,652	1,198	5,992	18,842
1976	11,632	1,159	5,708	18,499
1977	12,112	1,094	5,414	18,620
1978	11,895	1,187	5,187	18,269
1979	12,290	1,319	5,374	18,983
1980	12,342	1,313	5,509	19,164
1981	12,637	1,385	5,528	19,550
1982	12,938	1,298	5,282	19,518
1983	12,804	1,379	5,027	19,210
1984	13,318	1,339	4,790	19,447
1985	13,656	1,421	4,454	19,531
1986	13,614	1,407	4,358	19,379
1987	13,756	1,567	4,187	19,510
1988	14,162	1,496	4,096	19,754

Year	Salaries and Wages (Thousands of Dollars)			
	Breweries	Wineries	Distilleries	Total Alcohol
1975	\$172,441	\$13,219	\$81,555	\$267,215
1976	194,643	14,677	85,266	294,586
1977	216,875	15,670	89,551	322,096
1978	228,937	18,665	91,646	339,248
1979	262,366	22,991	104,202	389,559
1980	301,170	24,047	121,290	446,507
1981	334,316	29,170	132,112	495,598
1982	375,135	31,423	149,957	556,515
1983	411,395	35,296	151,921	598,612
1984	436,867	34,897	158,268	630,032
1985	467,445	37,716	154,356	659,517
1986	481,355	37,895	165,842	685,092
1987	502,801	46,449	168,472	717,722
1988	532,000	44,600	167,500	744,100

<sup>1</sup> Includes administrative, office and other non-production workers.

Sources: For 1975 to 1984, Statistics Canada, Alcoholic Beverage Industries 1982, 1983, and 1984 (Ottawa: Statistics Canada, Catalogue No. 32-231, 1984, 1985 and 1986 respectively); Statistics Canada, Beverage and Tobacco Products Industries, 1985, 1986, 1987 and 1988 (Ottawa: Statistics Canada, Catalogue No. 32-251, 1988, 1989, 1990 and 1991 respectively).

**TABLE D.6**

**REPRESENTATIVE PRICES FOR ILLEGAL DRUGS AT SUCCESSIVE STAGES OF TRAFFICKING, CANADA, 1989**

Weight	Prices for Heroin on the Canadian Market	
	No.4 Heroin	No.3 Heroin
	(Injectable Form)	(Smokable Form)
1 kg	(pure) \$115,000-\$160,000	(75%) \$100,000-\$150,000
1 oz (28 g)	(pure) \$18,000-\$20,000	(65%) \$4,000-\$6,000
1 g	(pure) \$1,000	(35%) \$100-\$200
0.1 g	(5%-6%) \$35-\$50	(35%) \$40-\$60

Level	Prices for Cocaine Hydrochloride in Canada	
	Weight	Price
Wholesale	1 kg of cocaine hydrochloride (pure)	\$22,000-\$45,000
Retail	1 oz (28 g) of cocaine hydrochloride (60% pure)	\$1,300-\$4,000
	1 g of cocaine hydrochloride (60% pure)	\$80-\$225

Level and Weight	Prices for Liquid Hashish at Successive Stages of Trafficking	
	Source: Jamaica	
Source 1 lb		\$1,250-\$1,500
Trafficker (Canada) 1 lb		\$4,000-\$6,500
Street (Canada) 1 oz		\$400-\$500
1 g		\$15-\$50



TABLE D.6 (Concluded)

**REPRESENTATIVE PRICES FOR DRUGS AT SUCCESSIVE STAGES OF TRAFFICKING, 1989**

Level and Weight	Prices for Hashish at Successive Stages of Trafficking	
	Source Area	
	Lebanon	Pakistan/India
Source 1 lb	\$100-\$250	\$90-\$500
Traffic (Canada) 1 lb	\$1,600-\$4,400	\$1,600-\$4,400
Street (Canada) 1 oz	\$150-\$400	\$150-\$400
1 g	\$10-\$35	\$10-\$35

Level and Weight	Prices for Marihuana at Successive Stages of Trafficking				
	Source Area				
	Columbia	Jamaica	Thailand	U.S.A.	Mexico
Source 1 lb	\$5-\$10	\$100	\$20-70	\$800-\$1,100 Sinsemilla	\$60-\$120
Traffickers (Canada) 1 lb.	\$700-\$2,200	\$400-\$2,000	\$2,500	\$2,200-\$3,300 Sinsemilla	\$1,800-\$2,500
Street (Canada) 1 oz/unit	\$65-\$225	\$35-\$165	\$25-\$40 per stick	\$210-\$300 Sinsemilla	\$200-\$250

Source: Drug Enforcement Directorate, Royal Canadian Mounted Police, National Drug Intelligence Estimate 1990 (Ottawa: Ministry of Supply and Services Canada 1991).

**Chapter E** \_\_\_\_\_  
**DRINKING AND DRIVING IN CANADA**

## Chapter E

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# DRINKING AND DRIVING IN CANADA

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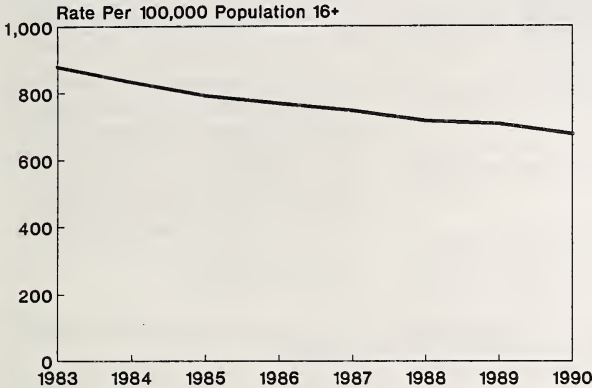
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## E. DRINKING AND DRIVING IN CANADA

### Highlights

**Figure E.1**  
**Drinking and Driving Offences, Rates Per 100,000**  
**Population, Aged 16 and Over, Canada,**  
**1983 to 1990**



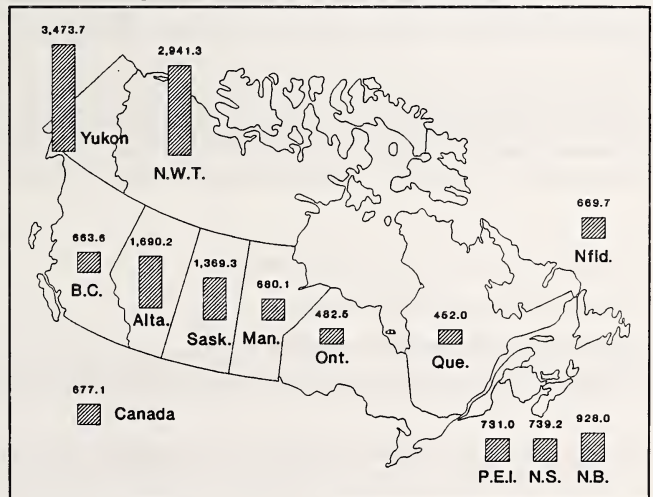
In 1990, there were 139,871 drinking and driving offences in Canada (Table E.1). Since 1983 offences have declined by 16%. Corresponding rates per 100,000 population 16 and over have declined by 23% (Figure E.1)

Across the country, offence rates are highest in the Yukon (3,473.7 offences per 100,000 population aged 16 and over), the Northwest Territories (2,941.3), Alberta (1,690.2) and Saskatchewan (1,369.3) (Figure E.2). The remaining provinces all have offence rates of under 1,000, with the lowest rate recorded in Quebec (452.0).

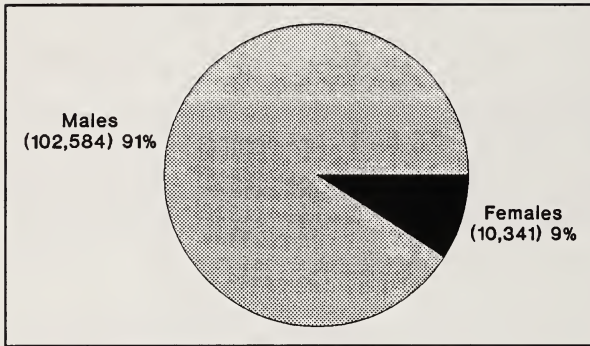
In all provinces, except the Northwest Territories, the offences rates have declined since 1983. The most significant decline has occurred in Prince Edward Island where offences have fallen from 1853.7 offences per 100,000 population aged 16 and over to the 1990 rate of 731.0.

Eighty-nine percent of offences were for driving a motor vehicle with a blood alcohol over 80 mg %<sup>1</sup> (Table E.2). Failure to provide breath sample accounted for 9% of all offences (Table E.2).

**Figure E.2**  
**Drinking and Driving Offences, Rates Per 100,000**  
**Population, Aged 16 and Over, Canada and Provinces, 1990**



**Figure E.3**  
**Person Charged with Drinking and Driving**  
**Offences, by Sex, Canada, 1990**



Of all traffic offences involving alcohol and motor vehicle accidents, 1% ended in bodily harm and 0.1% in deaths. On the other hand, of all offences involving alcohol and boats, vessels or aircrafts, 26% ended in bodily harm and 3% in death.

In 1990, 112,925 persons<sup>2</sup> were charged for alcohol-related traffic offences (Table E.3). Male charges accounted for 91% of this total (Figure E.3).

Sentenced admissions to provincial correctional facilities for drinking and driving convictions accounted for 14% of all admissions in 1989-90 (Table E.5). The highest percentage was recorded in Prince Edward Island (with 53% of all admissions), followed by New Brunswick (31%) and Newfoundland (30%).

Tables E.6 and E.7 present information about blood alcohol levels in fatally injured drivers. This information is maintained for Transport Canada by the Traffic Injury Research Foundation.

Of the 2,045 driver fatalities<sup>2</sup> in 1989, 1,881 (78.2%) were tested for alcohol use. Of those tested, 7.6% registered some level of alcohol use and 38.9% were legally impaired (Table E.6). Age is also an important factor: almost 50% of the drivers tested between the ages of 20 and 35 were legally impaired.

Table E.7 presents data from original seven provinces for the period 1980 to 1989. The percentage of drivers fatally injured with blood alcohol content above the legal level has declined over this period. In 1980, almost half of the drivers tested were found to be legally impaired and in 1989, the figure had declined to 36%.

In Canada, drinking and driving is a criminal offence and is defined under the Criminal Code. Offences and maximum penalties are outlined in Text Table 1. In addition to the penalties defined in this table, each of the provinces also have legislation regarding traffic offences. For instance, in Ontario, in addition to the federal penalty the province has additional license suspension penalties for these offences.

<sup>1</sup> or 80 mg of alcohol per 100 mL of blood, or .08%.

<sup>2</sup> Included both adult and juveniles charged.

<sup>3</sup> Based on drivers that died with one year of their accident.

<sup>4</sup> Includes Prince Edward Island, New Brunswick, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia.



Text Table E.1

<b>CRIMINAL CODE - DRINKING AND DRIVING OFFENCES AND PENALTIES</b>	
<b>Offence</b>	<b>Federal Penalties</b>
<b>Impaired Driving:</b>  <b>Driving with blood alcohol over 80 mg %</b>  <b>Failing to provide a breath or bloods sample without a reasonable excuse</b>	<b>Minimum penalty:</b>  <b>First Offence:</b> \$300 fine and three months driving prohibition  <b>Second Offence:</b> 14 days imprisonment and six months driving prohibition  <b>Subsequent Offence:</b> 90 days imprisonment and one year's driving prohibition  <b>Maximum penalty for first, second, or subsequent offences:</b>  <b>Summary Conviction:</b> \$2,000 fine, six months imprisonment and three years driving prohibition  <b>Indictment:</b> five years imprisonment and three years driving prohibition
<b>Impaired driving causing death</b>	<b>Maximum Penalty:</b> <b>14 years imprisonment and 10 years driving prohibition</b>
<b>Impaired driving causing bodily harm</b>	<b>Maximum Penalty:</b> <b>10 years imprisonment and 10 years driving prohibition</b>
* In addition to these penalties the court may impose a fine of any amount.	

Adapted from Ontario Ministry of Attorney General, Drinking and Driving - You Can Lose a Lot More than Your Licence Drinking and Driving (Toronto: Ministry of the Attorney General, undated).

## Explanatory Notes

Data in Table E.1 to E.4 are based on information recorded by the Uniform Crime Reporting (UCR) system. For additional information regarding definitions and methods of data collection under the UCR system see Appendix B.

Persons charged do not represent an unduplicated count of individuals charged during the year, as a person is counted on each occasion that s/he has been charged with having committed an offence.

## **References**

Traffic enforcement data were obtained from the Canadian Centre for Justice Statistics, Statistics Canada.

Statistics Canada, Adult Correctional Services in Canada 1988-89, and 1989-90 (Ottawa: Statistics Canada, Catalogue No. 85-211, 1989 and 1990 respectively).

Road Users Division, Road Safety Directorate, Transport Canada, Leaflet TP2436 - Alcohol Use by Drivers Fatally Injured in Motor Vehicle Accidents: 1989 and the Past Ten Years, (Ottawa: Transport Canada, undated).

Ontario Ministry of Attorney General, Drinking and Driving - You Can Lose a Lot More than Your Licence Drinking and Driving (Toronto: Ministry of the Attorney General, undated).

TABLE E.1

## NUMBERS AND RATES PER 100,000 POPULATION OF DRINKING AND DRIVING OFFENCES<sup>1</sup>, CANADA AND PROVINCES, 1983 TO 1990

Province	Number							
	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	3,584	3,431	3,401	3,061	3,676	3,689	3,563	2,873
P.E.I.	1,696	1,776	1,604	1,381	1,189	937	785	720
N.S.	6,532	7,624	6,500	5,787	5,843	5,773	4,933	5,136
N.B.	5,116	5,001	5,080	5,567	4,998	4,447	4,941	5,183
Que.	25,626	22,475	23,767	27,009	27,973	26,395	24,500	24,015
Ont.	45,291	46,444	41,600	41,138	39,015	39,108	39,667	36,779
Man.	7,457	6,978	7,437	8,401	7,289	6,375	6,103	5,672
Sask.	11,231	10,538	9,305	9,423	9,834	9,077	9,472	10,181
Alta.	33,067	31,200	31,801	29,548	29,803	29,321	32,048	31,293
B.C.	25,594	22,547	21,370	17,965	17,242	16,982	16,606	16,306
Yukon	681	757	650	597	677	980	720	660
N.W.T.	563	795	795	694	781	965	991	1,053
<b>Canada</b>	<b>166,438</b>	<b>159,566</b>	<b>153,310</b>	<b>150,571</b>	<b>148,320</b>	<b>144,049</b>	<b>144,329</b>	<b>139,871</b>

Province	Rates Per 100,000 Population							
	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	627.2	599.4	595.1	538.6	647.0	649.4	625.1	501.4
P.E.I.	1,371.1	1,419.7	1,273.0	1,090.8	934.0	728.0	602.9	552.1
N.S.	762.2	882.0	746.3	662.7	664.8	653.1	556.3	576.0
N.B.	727.5	706.5	715.6	783.6	701.7	622.5	687.7	716.0
Que.	395.8	346.2	364.8	413.0	424.3	397.6	366.3	355.1
Ont.	514.8	521.7	461.9	451.4	420.8	414.7	414.5	377.9
Man.	713.2	661.4	699.0	784.3	675.5	587.7	562.9	520.4
Sask.	1,135.2	1,053.3	922.7	932.8	969.8	897.6	940.6	1,017.8
Alta.	1,413.9	1,334.2	1,354.1	1,244.1	1,252.0	1,221.1	1,319.3	1,267.0
B.C.	909.6	791.8	744.6	621.8	589.3	569.1	543.5	520.7
Yukon	2,973.8	3,277.1	2,766.0	2,540.4	2,774.6	3,873.5	2,834.6	2,538.5
N.W.T.	1,153.7	1,586.8	1,531.8	1,329.5	1,510.6	1,862.9	1,855.8	1,950.0
<b>Canada</b>	<b>671.5</b>	<b>638.8</b>	<b>609.2</b>	<b>593.9</b>	<b>578.8</b>	<b>555.7</b>	<b>550.5</b>	<b>526.1</b>

Province	Rates Per 100,000 Population 16 and Over							
	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	898.7	849.5	834.0	747.7	889.2	884.0	842.3	669.7
P.E.I.	1,853.6	1,907.6	1,702.8	1,452.2	1,241.1	965.0	797.0	731.0
N.S.	1,007.1	1,159.2	976.1	862.4	860.5	842.9	715.3	739.2
N.B.	981.0	946.6	953.8	1,038.8	924.2	815.4	895.8	928.0
Que.	511.9	446.4	469.1	529.2	542.0	507.1	466.4	452.0
Ont.	667.1	674.0	595.1	579.6	538.5	529.9	529.1	482.5
Man.	944.0	873.9	921.4	1,031.1	885.4	769.5	736.2	680.1
Sask.	1,537.2	1,425.0	1,247.3	1,260.1	1,308.2	1,210.4	1,267.2	1,369.3
Alta.	1,899.6	1,793.0	1,818.6	1,666.9	1,672.2	1,629.5	1,758.5	1,690.2
B.C.	1,175.1	1,021.2	958.0	797.2	752.8	725.5	692.1	663.5
Yukon	4,102.4	4,532.9	3,823.5	3,470.9	3,761.1	5,268.8	3,891.9	3,473.7
N.W.T.	1,798.7	2,468.9	2,359.1	2,041.2	2,317.5	2,821.6	2,807.4	2,941.3
<b>Canada</b>	<b>878.6</b>	<b>833.5</b>	<b>792.7</b>	<b>770.1</b>	<b>747.8</b>	<b>716.6</b>	<b>708.7</b>	<b>677.1</b>

<sup>1</sup> For a detailed breakdown of offences for the period 1987 to 1990 see Table E.2.

Source: Traffic enforcement data were obtained from the Canadian Centre for Justice Statistics, Statistics Canada.

TABLE E.2

NUMBER OF ALCOHOL-RELATED TRAFFIC OFFENCES BY TYPE OF OFFENCE AND RATES PER 100,000 POPULATION, CANADA AND PROVINCES, 1987 TO 1990

Province	Impaired Operation of Motor Vehicle - Causing Death											
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	2	-	1	6	0.4	-	0.2	1.0	0.5	-	0.2	1.4
P.E.I.	-	-	1	3	-	-	0.8	2.3	-	-	1.0	3.0
N.S.	7	3	3	4	0.8	0.3	0.3	0.4	1.0	0.4	0.4	0.6
N.B.	5	-	4	1	0.7	-	0.6	0.1	0.9	-	0.7	0.2
Que.	28	28	54	45	0.4	0.4	0.8	0.7	0.5	0.5	1.0	0.8
Ont.	65	74	60	33	0.7	0.8	0.6	0.3	0.9	1.0	0.8	0.4
Man.	12	7	13	5	1.1	0.6	1.2	0.5	1.5	0.8	1.6	0.6
Sask.	14	9	9	11	1.4	0.9	0.9	1.1	1.9	1.2	1.2	1.5
Alta.	20	40	27	22	0.8	1.7	1.1	0.9	1.1	2.2	1.5	1.2
B.C.	25	27	15	35	0.9	0.9	0.5	1.1	1.1	1.2	0.6	1.4
Yukon	2	-	1	-	8.2	-	3.9	-	11.1	-	5.4	-
N.W.T.	2	-	-	-	3.9	-	-	-	5.9	-	-	-
Canada	182	188	188	165	0.7	0.7	0.7	0.6	0.9	0.9	0.9	0.8

Province	Impaired Operation of Motor Vehicle - Causing Bodily Harm											
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	7	13	9	9	1.2	2.3	1.6	1.6	1.7	3.1	2.1	2.1
P.E.I.	-	-	1	2	-	-	0.8	1.5	-	-	1.0	2.0
N.S.	12	11	14	16	1.4	1.2	1.6	1.8	1.8	1.6	2.0	2.3
N.B.	4	5	16	18	0.6	0.7	2.2	2.5	0.7	0.9	2.9	3.2
Que.	286	312	319	362	4.3	4.7	4.8	5.4	5.5	6.0	6.1	6.8
Ont.	598	548	566	477	6.5	5.8	5.9	4.9	8.3	7.4	7.5	6.3
Man.	117	77	88	76	10.8	7.1	8.1	7.0	14.2	9.3	10.6	9.1
Sask.	55	44	53	46	5.4	4.4	5.3	4.6	7.3	5.9	7.1	6.2
Alta.	228	237	219	275	9.6	9.9	9.0	11.1	12.8	13.2	12.0	14.9
B.C.	141	122	92	136	4.8	4.1	3.0	4.3	6.2	5.2	3.8	5.5
Yukon	4	4	3	8	16.4	15.8	11.8	30.8	22.2	21.5	16.2	42.1
N.W.T.	-	-	-	1	-	-	5.6	1.9	-	-	8.5	2.8
Canada	1,452	1,373	1,383	1,426	5.7	5.3	5.3	5.4	7.3	6.8	6.8	6.9



TABLE E.2 (Continued)

NUMBER OF ALCOHOL-RELATED TRAFFIC OFFENCES BY TYPE OF OFFENCE AND RATES PER 100,000 POPULATION, CANADA AND PROVINCES, 1987 TO 1990

Province	Impaired Operation of Motor Vehicle — Blood Alcohol Over 80 mg %													
	Number	1987	1988	1989	1990	Rate/100,000 Total Population	1987	1988	1989	1990	Rate/100,000 Population 16 and Over	1987	1988	1989
Nfld.	3,109	3,062	3,080	2,548	547.2	539.0	540.4	444.7	752.1	733.8	728.1	593.9		
P.E.I.	943	755	623	564	740.8	586.6	478.5	432.5	984.3	777.5	632.5	572.6		
N.S.	4,234	4,233	3,634	3,884	481.7	478.9	409.8	435.6	623.6	618.0	527.0	559.0		
N.B.	3,891	3,480	3,997	4,310	546.3	487.1	556.3	595.4	719.5	638.1	724.6	771.7		
Que.	26,484	24,877	22,190	21,765	401.7	374.7	331.8	321.9	513.2	477.9	422.4	409.7		
Ont.	35,511	35,440	35,943	33,242	383.0	375.8	375.6	341.6	490.2	480.2	479.4	436.1		
Man.	6,253	5,409	5,254	4,971	579.5	498.7	484.6	456.1	759.6	652.9	633.8	596.0		
Sask.	8,821	8,232	8,649	9,433	869.9	814.1	858.9	943.0	1,173.5	1,097.7	1,157.1	1,268.7		
Alta.	26,716	26,728	29,532	28,872	1,122.3	1,113.2	1,215.7	1,169.0	1,499.0	1,485.4	1,620.4	1,559.5		
B.C.	14,639	14,419	14,231	13,790	500.4	483.2	465.7	440.3	639.2	616.0	593.1	561.2		
Yukon	585	860	628	577	2,397.5	3,399.2	2,472.4	2,219.2	3,250.0	4,623.7	3,394.6	3,036.8		
N.W.T.	686	885	910	994	1,326.9	1,708.5	1,704.1	1,840.7	2,035.6	2,587.7	2,577.9	2,776.5		
Canada	131,872	128,380	128,671	124,950	514.6	495.2	490.8	470.0	664.9	638.7	631.8	604.9		

Province	Impaired Operation of Boat, Vessel or Aircraft — Causing Death													
	Number	1987	1988	1989	1990	Rate/100,000 Total Population	1987	1988	1989	1990	Rate/100,000 Population 16 and Over	1987	1988	1989
Nfld.	-	-	-	-	-	-	-	-	-	-	-	-		
P.E.I.	1	2	-	-	0.1	0.2	-	-	0.1	0.3	-	-		
N.S.	-	-	-	-	-	-	-	-	-	-	-	-		
N.B.	-	-	-	-	-	-	-	-	-	-	-	-		
Que.	1	8	-	-	-	0.1	-	-	-	0.2	-	-		
Ont.	1	1	1	1	..	..	..	..	..	..	..	..		
Man.	-	3	2	3	-	0.3	0.2	0.3	-	0.4	0.2	0.4		
Sask.	-	1	3	1	-	0.1	0.3	0.1	-	0.1	0.4	0.1		
Alta.	-	2	5	2	-	0.1	0.2	0.1	-	0.1	0.3	0.1		
B.C.	5	2	3	6	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.2		
Yukon	-	-	-	-	-	-	-	-	-	-	-	-		
N.W.T.	-	1	-	1	-	1.9	-	1.9	-	2.9	-	2.8		
Canada	7	13	22	14	..	0.1	0.1	0.1	..	0.1	0.1	0.1		



TABLE E.2 (Continued)

NUMBER OF ALCOHOL-RELATED TRAFFIC OFFENCES BY TYPE OF OFFENCE AND RATES PER 100,000 POPULATION, CANADA AND PROVINCES, 1987 TO 1990

Province	Impaired Operation of Boat, Vessel or Aircraft - Causing Bodily Harm											
	Number		Rate/100,000 Total Population		Rate/100,000 Population 16 and Over		Rate/100,000 Population 16 and Over		Rate/100,000 Population 16 and Over			
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	-	2	-	1	-	0.4	-	0.2	-	0.5	-	0.2
P.E.I.	-	-	-	1	-	-	-	0.8	-	-	-	1.0
N.S.	6	5	16	2	0.7	0.6	1.8	0.2	0.9	0.7	2.3	0.3
N.B.	2	32	4	17	0.3	4.5	0.6	2.3	0.4	5.9	0.7	3.0
Que.	34	51	13	65	0.5	0.8	0.2	1.0	0.7	1.0	0.2	1.2
Ont.	24	22	16	12	0.3	0.2	0.2	0.1	0.3	0.3	0.2	0.2
Man.	1	2	3	6	0.1	0.2	0.3	0.6	0.1	0.2	0.4	0.7
Sask.	5	2	6	2	0.5	0.2	0.6	0.2	0.7	0.3	0.8	0.3
Alta.	11	8	21	8	0.5	0.3	0.9	0.3	0.6	0.4	1.2	0.4
B.C.	9	4	6	4	0.3	0.1	0.2	0.1	0.4	0.2	0.3	0.2
Yukon	-	-	-	1	-	-	-	3.8	-	-	-	5.3
N.W.T.	1	-	-	2	1.9	-	-	3.7	3.0	-	-	5.6
Canada	93	128	85	121	0.4	0.5	0.3	0.5	0.5	0.6	0.4	0.6

Province	Impaired Operation of Boat, Vessel or Aircraft - Blood Alcohol Over 80 mg %											
	Number		Rate/100,000 Total Population		Rate/100,000 Population 16 and Over		Rate/100,000 Population 16 and Over		Rate/100,000 Population 16 and Over			
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	5	14	9	16	0.9	2.5	1.6	2.8	1.2	3.4	2.1	3.7
P.E.I.	13	5	2	10	10.2	3.9	1.5	7.7	13.6	5.1	2.0	10.2
N.S.	16	46	46	48	1.8	5.2	5.2	5.4	2.4	6.7	6.7	6.9
N.B.	5	14	6	30	0.7	2.0	0.8	4.1	0.9	2.6	1.1	5.4
Que.	161	98	47	52	2.4	1.5	0.7	0.8	3.1	1.9	0.9	1.0
Ont.	100	70	50	63	1.1	0.7	0.5	0.6	1.4	0.9	0.7	0.8
Man.	18	25	26	25	1.7	2.3	2.4	2.3	2.2	3.0	3.1	3.0
Sask.	24	13	26	30	2.4	1.3	2.6	3.0	3.2	1.7	3.5	4.0
Alta.	19	12	11	10	0.8	0.5	0.5	0.4	1.1	0.7	0.6	0.5
B.C.	33	34	36	33	1.1	1.1	1.2	1.1	1.4	1.5	1.5	1.3
Yukon	1	3	-	5	4.1	11.9	-	19.2	5.6	16.1	-	26.3
N.W.T.	7	4	7	6	13.5	7.7	13.1	11.1	20.8	11.7	19.8	16.8
Canada	402	338	266	328	1.6	1.3	1.0	1.2	2.0	1.7	1.3	1.6

TABLE E.2 (Continued)

NUMBER OF ALCOHOL-RELATED TRAFFIC OFFENCES BY TYPE OF OFFENCE AND RATES PER 100,000 POPULATION, CANADA AND PROVINCES, 1987 TO 1990

Province	Fail or Refuse to Provide Breath Sample					Rate/100,000 Population 16 and Over				
	1987	1988	1989	1990		1987	1988	1989	1990	
Nfld.	546	586	456	279		96.1	103.2	80.0	48.7	
P.E.I.	225	173	150	135		176.7	134.4	115.2	103.5	
N.S.	1,529	1,427	1,174	1,131		174.0	161.4	132.4	126.9	
N.B.	1,055	892	874	758		148.1	124.9	121.6	104.7	
Que.	916	870	1,732	1,633		13.9	13.1	25.9	24.1	
Ont.	2,660	2,892	2,957	2,879		28.7	30.7	30.9	29.6	
Man.	863	816	687	561		80.0	75.2	63.4	51.5	
Sask.	886	757	701	629		87.4	74.9	69.6	62.9	
Alta.	2,728	2,228	2,173	2,033		114.6	92.8	89.5	82.3	
B.C.	2,294	2,286	2,143	2,198		78.4	76.6	70.1	70.2	
Yukon	84	108	86	69		344.3	426.9	338.6	265.4	
N.W.T.	81	74	70	48		156.7	142.9	131.1	88.9	
Canada	13,867	13,109	13,203	12,353		54.1	50.6	50.4	46.5	

Province	Fail or Refuse to Provide Blood Sample					Rate/100,000 Population 16 and Over				
	1987	1988	1989	1990		1987	1988	1989	1990	
Nfld.	7	12	8	14		1.2	2.1	1.4	2.4	
P.E.I.	8	4	8	5		6.3	3.1	6.1	3.8	
N.S.	38	46	46	51		4.3	5.2	5.2	5.7	
N.B.	36	24	40	49		5.1	3.4	5.6	6.8	
Que.	64	158	137	93		1.0	2.4	2.0	1.4	
Ont.	56	61	74	72		0.6	0.6	0.8	0.7	
Man.	25	36	30	25		2.3	3.3	2.8	2.3	
Sask.	29	19	25	29		2.9	1.9	2.5	2.9	
Alta.	81	66	60	71		3.4	2.7	2.5	2.9	
B.C.	96	88	80	104		3.3	2.9	2.6	3.3	
Yukon	1	5	2	1		4.1	19.8	7.9	—	
N.W.T.	4	1	1	1		7.7	1.9	1.9	1.9	
Canada	445	520	511	514		1.7	2.0	1.9	1.9	

TABLE E.2 (Concluded)

NUMBER OF ALCOHOL-RELATED TRAFFIC OFFENCES BY TYPE OF OFFENCE AND RATES PER 100,000 POPULATION, CANADA AND PROVINCES, 1987 TO 1990

Province	Total <sup>1</sup> Alcohol-Related Traffic Offences					Rate/100,000 Population							
	1987	1988	1989	1990	Total Population	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	3,676	3,689	3,563	2,873		647.0	649.4	625.1	501.4	889.2	884.0	842.3	669.7
P.E.I.	1,189	937	785	720		934.0	728.0	602.9	552.1	1,241.1	965.0	797.0	731.0
N.S.	5,843	5,773	4,933	5,136		664.8	653.1	556.3	576.0	860.5	842.9	715.3	739.2
N.B.	4,998	4,447	4,941	5,183		701.7	622.5	687.7	716.0	924.2	815.4	895.8	928.0
Que.	27,973	26,395	24,500	24,015		424.3	397.6	366.3	355.1	542.0	507.1	466.4	452.0
Ont.	39,015	39,108	39,667	36,779		420.8	414.7	414.5	377.9	538.5	529.9	529.1	482.5
Man.	7,289	6,375	6,103	5,672		675.5	587.7	562.9	520.4	885.4	769.5	736.2	680.1
Sask.	9,834	9,077	9,472	10,181		969.8	897.6	940.6	1,017.8	1,308.2	1,210.4	1,267.2	1,369.3
Alta.	29,803	29,321	32,048	31,293		1,252.0	1,221.1	1,319.3	1,267.0	1,672.2	1,629.5	1,758.5	1,690.2
B.C.	17,242	16,982	16,606	16,306		589.3	569.1	543.5	520.7	752.8	725.5	692.1	663.5
Yukon	677	980	720	660		2,774.6	3,873.5	2,834.6	2,538.5	3,761.1	5,268.8	3,891.9	3,473.7
N.W.T.	781	965	991	1,053		1,510.6	1,862.9	1,855.8	1,950.0	2,317.5	2,821.6	2,807.4	2,941.3
<b>Canada</b>	<b>148,320</b>	<b>144,049</b>	<b>144,329</b>	<b>139,871</b>		<b>578.8</b>	<b>555.7</b>	<b>550.5</b>	<b>526.1</b>	<b>747.8</b>	<b>716.6</b>	<b>708.7</b>	<b>677.1</b>

<sup>1</sup> Includes both motor vehicles, boats, aircraft, and vessels.

Source: Traffic enforcement data were obtained from the Canadian Centre for Justice Statistics, Statistics Canada.



TABLE E.3

PERSONS<sup>1</sup> CHARGED WITH ALCOHOL-RELATED TRAFFIC OFFENCES BY SEX,  
CANADA AND PROVINCES, 1987 TO 1990

Province	Impaired Operation of Motor Vehicle - Causing Death											
	Male					Female					Total	
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	2	-	1	1	-	-	-	1	-	-	-	2
P.E.I.	5	3	4	3	-	-	-	2	-	-	-	1
N.S.	5	-	2	2	-	-	1	-	5	3	4	5
N.B.	25	66	48	34	-	3	3	2	5	27	51	36
Que.	56	66	53	31	5	5	4	2	61	71	57	33
Ont.	12	6	9	3	-	-	-	-	12	6	9	3
Man.	10	2	4	4	-	1	-	1	10	3	4	5
Sask.	11	24	15	12	3	5	1	1	14	29	16	13
Alta.	15	20	17	26	3	-	-	1	18	20	17	27
B.C.	1	-	1	-	1	-	-	-	2	-	1	-
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	142	145	155	117	12	14	9	10	154	159	164	127

Province	Impaired Operation of Motor Vehicle - Causing Bodily Harm											
	Male					Female					Total	
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	6	13	8	6	-	-	-	1	6	13	8	7
P.E.I.	1	-	-	1	-	-	-	-	1	-	-	1
N.S.	11	10	12	7	1	-	-	-	12	10	12	7
N.B.	4	4	14	9	-	-	-	2	4	4	14	11
Que.	276	259	259	299	13	19	19	21	289	278	278	320
Ont.	523	455	448	379	42	47	31	37	565	502	479	416
Man.	97	65	71	56	6	5	8	7	103	70	79	63
Sask.	41	30	31	29	3	5	8	6	44	35	39	35
Alta.	160	146	135	134	14	17	23	25	174	163	158	159
B.C.	118	90	73	105	8	21	8	18	126	111	81	123
Yukon	2	4	3	1	2	-	-	-	4	-	3	1
N.W.T.	-	-	2	1	-	-	-	3	-	-	2	4
Canada	1,239	1,076	1,056	1,027	89	114	97	120	1,328	1,190	1,153	1,147

TABLE E.3 (Continued)

PERSONS<sup>1</sup> CHARGED WITH ALCOHOL-RELATED TRAFFIC OFFENCES BY SEX, CANADA AND PROVINCES, 1987 TO 1990

Province	Impaired Operation of Motor Vehicle - Blood Alcohol Over 80 mg %															
	Male		Female		Total		1987		1988		1989		1990			
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	2,426	2,386	2,455	2,073	83	92	85	110	2,509	2,478	2,540	2,183	2,509	2,478	2,540	2,183
P.E.I.	648	586	493	446	60	44	29	21	708	630	522	467	708	630	522	467
N.S.	3,367	3,361	2,936	3,139	222	235	205	254	3,589	3,596	3,141	3,393	3,589	3,596	3,141	3,393
N.B.	3,400	2,990	2,977	3,123	195	200	191	200	3,595	3,190	3,168	3,323	3,595	3,190	3,168	3,323
Que.	23,624	22,092	20,161	19,422	1,244	1,194	1,337	1,384	24,868	23,286	21,498	20,806	24,868	23,286	21,498	20,806
Ont.	31,689	31,104	31,603	29,047	3,114	2,928	3,099	2,815	34,803	34,032	34,702	31,862	34,803	34,032	34,702	31,862
Man.	5,049	4,185	3,999	3,732	505	444	505	489	5,554	4,629	4,504	4,221	5,554	4,629	4,504	4,221
Sask.	6,775	6,118	6,033	6,177	863	781	837	906	7,638	6,899	6,870	7,083	7,638	6,899	6,870	7,083
Alta.	16,870	15,616	15,330	14,655	1,999	1,806	1,896	1,920	18,869	17,422	17,226	16,575	18,869	17,422	17,226	16,575
B.C.	12,238	12,044	12,010	11,573	1,314	1,339	1,326	1,285	13,552	13,383	13,336	12,858	13,552	13,383	13,336	12,858
Yukon	451	494	365	428	61	66	50	42	512	560	415	470	512	560	415	470
N.W.T.	459	529	450	329	41	38	49	52	500	567	499	381	500	567	499	381
Canada	106,996	101,505	98,812	94,144	9,701	9,167	9,609	9,478	116,697	110,672	108,421	103,622	116,697	110,672	108,421	103,622

Province	Impaired Operation of Boat, Vessel or Aircraft - Causing Death															
	Male		Female		Total		1987		1988		1989		1990			
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
N.B.	-	-	-	1	-	-	-	-	-	-	-	-	-	-	8	1
Que.	-	1	8	-	-	-	-	-	-	-	-	-	1	1	1	1
Ont.	1	1	1	1	-	-	-	-	1	1	1	1	-	1	1	1
Man.	-	1	1	1	-	-	-	-	-	-	-	-	-	1	2	1
Sask.	-	1	2	-	-	-	-	-	-	-	-	-	-	1	5	2
Alta.	-	1	2	2	-	1	3	-	-	-	-	-	-	2	1	1
B.C.	1	1	1	1	-	1	-	-	1	2	1	1	1	2	1	1
Yukon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Canada	2	6	14	6	-	2	3	-	2	8	17	6	2	8	17	6



TABLE E.3 (Continued)

PERSONS' CHARGED WITH ALCOHOL-RELATED TRAFFIC OFFENCES BY SEX, CANADA AND PROVINCES, 1987 TO 1990

Province	Impaired Operation of Boat, Vessel or Aircraft — Causing Bodily Harm							
	Male		Female		Total			
	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	-	1	-	1	-	-	-	1
P.E.I.	-	-	-	-	-	-	-	-
N.S.	3	6	16	1	3	6	16	1
N.B.	1	26	2	4	1	28	2	4
Que.	28	43	12	55	1	45	12	61
Ont.	18	16	15	13	2	20	15	13
Man.	1	2	1	2	1	2	1	2
Sask.	5	1	3	1	5	1	3	2
Alta.	2	4	8	3	2	5	11	4
B.C.	4	2	5	2	4	2	5	3
Yukon	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-
Canada	62	101	62	82	3	7	3	9
					65	108	65	91

Province	Impaired Operation of Boat, Vessel or Aircraft — Blood Alcohol Over 80 mg %							
	Male		Female		Total			
	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	4	11	7	12	-	4	11	12
P.E.I.	12	6	2	5	-	12	6	6
N.S.	9	29	32	35	-	9	31	40
N.B.	5	13	3	23	-	5	13	24
Que.	154	87	39	47	7	161	92	50
Ont.	93	64	48	52	3	96	66	49
Man.	13	17	21	22	-	13	17	23
Sask.	15	8	12	25	-	15	9	26
Alta.	11	7	3	4	1	12	7	4
B.C.	15	21	26	23	-	15	21	26
Yukon	1	2	3	3	-	1	2	3
N.W.T.	5	2	3	-	-	5	2	-
Canada	337	267	196	251	11	348	277	267

TABLE E.3 (Continued)

PERSONS' CHARGED WITH ALCOHOL-RELATED TRAFFIC OFFENCES BY SEX, CANADA AND PROVINCES, 1987 TO 1990

Province	Male				Female				Total			
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	519	546	411	222	13	21	26	14	532	567	437	236
P.E.I.	207	154	133	125	37	10	12	5	244	164	145	130
N.S.	1,325	1,222	1,022	982	89	107	69	73	1,414	1,329	1,091	1,055
N.B.	995	832	798	653	54	42	47	50	1,049	874	845	703
Que.	682	713	1,466	1,325	53	49	111	102	735	762	1,577	1,427
Ont.	2,277	2,353	2,317	2,213	290	284	291	257	2,567	2,608	2,608	2,470
Man.	690	630	521	443	77	82	69	69	767	712	590	512
Sask.	508	420	402	341	79	77	66	65	587	497	468	406
Alta.	600	406	333	237	68	51	54	34	668	457	387	271
B.C.	509	421	48	86	39	39	3	11	548	460	51	97
Yukon	30	44	50	14	1	9	7	1	31	53	57	15
N.W.T.	31	21	19	36	5	5	3	4	36	26	22	40
Canada	8,373	7,762	7,520	6,677	805	776	758	685	9,178	8,538	8,278	7,362

Province	Male				Female				Total			
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	5	11	7	12	-	2	-	-	5	13	7	12
P.E.I.	6	6	7	5	-	-	-	-	6	6	7	5
N.S.	31	35	36	47	3	4	3	2	34	39	39	49
N.B.	34	24	32	32	2	-	3	3	36	24	35	35
Que.	41	46	98	63	5	6	15	7	46	52	113	70
Ont.	51	49	54	58	1	5	5	4	52	54	59	62
Man.	19	26	26	19	-	1	2	2	19	27	28	21
Sask.	21	10	11	14	1	2	3	4	22	12	14	18
Alta.	19	17	10	12	-	1	1	1	19	18	11	13
B.C.	19	12	16	18	-	2	3	-	19	14	19	18
Yukon	-	2	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	246	238	297	280	12	23	35	23	258	261	332	303

TABLE E.3 (Concluded)

PERSONS<sup>1</sup> CHARGED WITH ALCOHOL-RELATED TRAFFIC OFFENCES BY SEX,  
CANADA AND PROVINCES, 1987 TO 1990

Province	Total <sup>2</sup> Alcohol-Related Traffic Offences													
	Male						Female						Total	
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990		
Nfld.	2,962	2,968	2,889	2,327	96	115	111	126	3,058	3,083	3,000	2,453		
P.E.I.	874	752	636	583	97	54	41	27	971	806	677	610		
N.S.	4,751	4,667	4,058	4,214	315	348	279	336	5,066	5,015	4,337	4,550		
N.B.	4,444	3,889	3,828	3,847	251	244	242	256	4,695	4,133	4,070	4,103		
Que.	24,830	23,265	22,091	21,245	1,323	1,278	1,488	1,525	26,153	24,543	23,579	22,770		
Ont.	34,708	34,108	34,538	31,794	3,457	3,273	3,431	3,119	38,165	37,381	37,969	34,913		
Man.	5,881	4,932	4,649	4,278	588	532	586	568	6,469	5,464	5,235	4,846		
Sask.	7,375	6,590	6,498	6,591	946	867	915	984	8,321	7,457	7,413	7,575		
Alta.	17,673	16,220	15,836	15,059	2,085	1,882	1,982	1,982	19,758	18,102	17,818	17,041		
B.C.	12,919	12,611	12,196	11,834	1,364	1,402	1,340	1,316	14,283	14,013	13,536	13,150		
Yukon	485	546	419	446	65	75	57	43	550	621	476	489		
N.W.T.	495	552	474	366	46	43	52	59	541	595	526	425		
<b>Canada</b>	<b>117,397</b>	<b>111,100</b>	<b>108,112</b>	<b>102,584</b>	<b>10,633</b>	<b>10,113</b>	<b>10,524</b>	<b>10,341</b>	<b>128,030</b>	<b>121,213</b>	<b>118,636</b>	<b>112,925</b>		

<sup>1</sup> Includes adults and juveniles.

<sup>2</sup> See footnote 1 in Table E.2.

Source: Traffic enforcement data were obtained from the Canadian Centre for Justice Statistics, Statistics Canada.



TABLE E.4

PERSONS<sup>1</sup> CHARGED WITH ALCOHOL-RELATED TRAFFIC OFFENCES BY SEX, RATES PER 100,000 POPULATION AGED 16 AND OVER, CANADA AND PROVINCES, 1987 TO 1990

Province	Impaired Operation of Motor Vehicle — Causing Death											
	Male						Female					
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	1.0	—	0.5	0.5	—	—	—	0.5	—	—	—	0.5
P.E.I.	—	—	2.1	2.1	—	—	—	0.6	—	—	—	—
N.S.	1.5	0.9	1.2	0.9	—	—	—	0.6	—	—	—	—
N.B.	1.9	—	0.8	0.7	—	—	0.4	—	—	—	—	—
Que.	1.0	1.0	1.9	1.3	—	—	—	0.1	0.1	0.1	0.1	0.1
Ont.	1.6	1.9	1.5	0.9	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Man.	3.1	1.5	2.3	0.8	—	—	—	—	—	—	—	—
Sask.	2.7	0.6	1.1	1.1	—	0.3	—	0.3	—	—	—	—
Alta.	1.3	2.7	1.7	1.3	0.3	0.6	0.1	0.1	0.1	0.1	0.1	0.1
B.C.	1.4	1.8	1.5	2.2	0.3	—	—	0.1	—	—	—	—
Yukon	10.9	—	10.5	—	11.9	—	—	—	—	—	—	—
N.W.T.	—	—	—	—	—	—	—	—	—	—	—	—
Canada	1.5	1.5	1.6	1.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Province	Impaired Operation of Motor Vehicle — Causing Bodily Harm											
	Male						Female					
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	3.0	6.5	3.9	2.9	—	—	—	0.5	—	—	—	1.7
P.E.I.	2.2	—	—	2.1	—	—	—	—	—	—	—	1.0
N.S.	3.4	3.1	3.7	2.1	0.3	—	—	—	—	—	—	1.0
N.B.	1.6	1.5	5.3	3.4	—	—	—	0.7	—	—	—	2.0
Que.	11.3	10.5	10.4	11.8	0.5	0.7	0.7	0.8	0.7	0.7	0.7	6.1
Ont.	15.2	12.9	12.5	10.4	1.1	1.3	0.8	1.0	0.8	0.8	0.8	5.6
Man.	24.7	16.4	18.0	14.1	1.4	1.2	1.9	1.7	1.2	1.2	1.2	7.7
Sask.	11.3	8.3	8.6	8.1	0.8	1.3	2.2	1.6	1.6	1.6	1.6	4.8
Alta.	18.3	16.6	15.2	14.8	1.6	1.9	2.6	2.7	2.7	2.7	2.7	8.8
B.C.	10.7	8.0	6.3	8.9	0.7	1.8	0.7	1.5	0.7	0.7	0.7	5.1
Yukon	21.7	41.7	31.6	10.2	23.8	—	—	—	—	—	—	5.4
N.W.T.	—	—	11.2	5.5	—	—	—	18.0	—	—	—	11.5
Canada	13.1	11.2	10.8	10.4	0.9	1.1	0.9	1.2	0.9	0.9	0.9	5.6

TABLE E.4 (Continued)

PERSONS' CHARGED WITH ALCOHOL-RELATED TRAFFIC OFFENCES BY SEX, RATES PER 100,000 POPULATION AGED 16 AND OVER, CANADA AND PROVINCES, 1987 TO 1990

Province	Impaired Operation of Motor Vehicle - Blood Alcohol Over 80 mg %											
	Male					Female					Total	
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	1,223.4	1,192.4	1,207.6	1,003.4	40.9	44.7	40.7	51.9	625.1	610.5	616.4	521.7
P.E.I.	1,417.9	1,265.7	1,044.5	944.9	125.0	90.3	58.8	42.5	755.6	663.2	540.9	483.4
N.S.	1,041.8	1,031.0	894.6	948.6	65.1	68.1	58.9	72.3	540.3	536.0	464.6	497.5
N.B.	1,318.9	1,151.3	1,133.7	1,171.0	72.1	73.1	68.9	71.3	680.4	598.1	586.8	607.2
Que.	964.8	893.5	808.0	769.4	47.5	45.1	50.0	51.2	490.7	455.0	416.1	398.1
Ont.	920.7	884.9	883.5	798.2	85.1	78.5	81.8	73.0	490.1	469.7	471.1	425.1
Man.	1,287.7	1,059.0	1,011.6	937.5	122.0	106.4	120.9	116.4	689.2	569.9	553.9	515.8
Sask.	1,860.2	1,684.0	1,668.9	1,718.7	232.3	210.2	225.5	245.1	1,038.2	938.8	937.8	971.5
Alta.	1,934.0	1,774.7	1,726.2	1,623.1	229.1	204.2	210.8	210.0	1,081.5	987.5	963.7	912.2
B.C.	1,113.1	1,070.8	1,040.7	979.0	114.5	113.9	110.0	104.0	603.2	591.8	565.3	531.7
Yukon	4,902.2	5,145.8	3,842.1	4,367.3	726.2	758.6	581.4	477.3	2,909.1	3,060.1	2,292.8	2,526.9
N.W.T.	2,653.2	3,022.9	2,514.0	1,807.7	268.0	242.0	298.8	311.4	1,533.7	1,707.8	1,454.8	1,091.7
Canada	1,129.8	1,056.3	1,014.5	952.4	97.3	90.6	93.6	91.0	600.3	560.9	542.0	510.4

Province	Impaired Operation of Boat, Vessel or Aircraft - Causing Death											
	Male					Female					Total	
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	-	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	0.3	-	-	-	-	-	-	-	0.1	-	-
N.B.	-	-	-	0.4	-	-	-	-	-	-	-	0.2
Que.	-	-	0.3	-	-	-	-	-	-	-	0.2	-
Ont.	-	-	-	0.0	-	-	-	-	-	-	-	-
Man.	-	0.3	0.3	0.3	-	-	-	-	-	0.1	0.1	0.1
Sask.	-	0.3	0.6	-	-	-	-	-	-	0.1	0.3	-
Alta.	-	-	0.2	0.2	-	0.1	0.3	-	-	0.1	0.3	0.1
B.C.	0.1	0.1	0.1	0.1	-	0.1	-	-	-	0.1	-	-
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	0.1	0.1	0.1	-	-	-	-	-	-	0.1	-



TABLE E.4 (Continued)

PERSONS' CHARGED WITH ALCOHOL-RELATED TRAFFIC OFFENCES BY SEX, RATES PER 100,000 POPULATION AGED 16 AND OVER, CANADA AND PROVINCES, 1987 TO 1990

Province	Impaired Operation of Boat, Vessel or Aircraft - Causing Bodily Harm												
	Male					Female					Total		
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988		1989	1990
Nfld.	-	0.5	-	0.5	-	-	-	-	-	-	-	-	0.2
P.E.I.	0.9	1.8	4.9	0.3	-	-	-	-	-	-	-	-	0.9
N.B.	0.4	10.0	0.8	1.5	-	-	-	-	-	-	-	-	5.2
Que.	1.1	1.7	0.5	2.2	0.0	0.1	-	0.2	0.2	0.6	0.9	0.2	1.2
Ont.	0.5	0.5	0.4	0.4	0.1	0.1	-	-	0.2	0.3	0.2	0.2	0.2
Man.	0.3	0.5	0.3	0.5	-	-	-	-	0.1	0.1	0.2	0.1	0.2
Sask.	1.4	0.3	0.8	0.3	-	-	-	0.3	0.3	0.7	0.1	0.4	0.3
Alta.	0.2	0.5	0.9	0.3	-	0.1	0.3	0.1	0.1	0.1	0.3	0.6	0.2
B.C.	0.4	0.2	0.4	0.2	-	-	-	0.1	0.2	0.2	0.1	0.2	0.1
Yukon	-	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-	-
Canada	0.7	1.1	0.6	0.8	0.0	0.1	0.0	0.1	0.3	0.5	0.3	0.3	0.4

Province	Impaired Operation of Boat, Vessel or Aircraft - Blood Alcohol Over 80 mg %											
	Male					Female					Total	
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988		1989
Nfld.	2.0	5.5	3.4	5.8	-	-	-	-	1.0	2.7	1.7	2.9
P.E.I.	26.3	13.0	4.2	10.6	-	-	-	2.0	12.8	6.3	2.1	6.2
N.S.	2.8	8.9	9.8	10.6	-	0.6	0.6	1.4	1.4	4.6	5.0	5.9
N.B.	1.9	5.0	1.1	8.6	-	-	-	0.4	0.9	2.4	0.6	4.4
Que.	6.3	3.5	1.6	1.9	0.3	0.2	0.1	0.1	3.2	1.8	0.8	1.0
Ont.	2.7	1.8	1.3	1.4	0.1	0.1	0.0	0.1	1.4	0.9	0.7	0.7
Man.	3.3	4.3	5.3	5.5	-	-	0.5	0.2	1.6	2.1	2.8	2.8
Sask.	4.1	2.2	3.3	7.0	-	0.3	0.3	0.3	2.0	1.2	1.8	3.6
Alta.	1.3	0.8	0.3	0.4	0.1	-	0.1	-	0.7	0.4	0.2	0.2
B.C.	1.4	1.9	2.3	1.9	-	-	-	-	0.7	0.9	1.1	1.0
Yukon	10.9	20.8	-	30.6	-	-	-	-	5.7	10.9	-	16.1
N.W.T.	28.9	11.4	16.8	-	-	-	-	-	15.3	6.0	8.7	-
Canada	3.6	2.8	2.0	2.5	0.1	0.1	0.1	0.2	1.8	1.4	1.0	1.3

TABLE E.4 (Continued)

PERSONS' CHARGED WITH ALCOHOL-RELATED TRAFFIC OFFENCES BY SEX, RATES PER 100,000 POPULATION AGED 16 AND OVER, CANADA AND PROVINCES, 1987 TO 1990

Province	Fail or Refuse to Provide Breath Sample												
	Male					Female					Total		
	1987	1988	1989	1990		1987	1988	1989	1990		1987	1988	1989
Nfld.	261.7	272.9	202.2	107.5	6.4	10.2	12.5	6.6	132.5	139.7	106.0	56.4	
P.E.I.	453.0	332.6	281.8	264.8	77.1	20.5	24.3	10.1	260.4	172.6	150.3	134.6	
N.S.	410.0	374.8	311.4	296.8	26.1	31.0	19.8	20.8	212.9	198.1	161.4	154.7	
N.B.	386.0	320.4	303.9	244.8	20.0	15.3	16.9	17.8	198.5	163.9	156.5	128.4	
Que.	27.9	28.8	58.8	52.5	2.0	1.9	4.2	3.8	14.5	14.9	30.5	27.3	
Ont.	66.2	66.9	64.8	60.8	7.9	7.6	7.7	6.7	36.1	36.4	35.4	33.0	
Man.	176.0	159.4	131.8	111.3	18.6	19.7	16.5	16.4	95.2	87.7	72.6	62.6	
Sask.	139.5	115.6	111.2	94.9	21.3	20.7	17.8	17.6	79.8	67.6	63.9	55.7	
Alta.	68.8	46.1	37.5	26.2	7.8	5.8	6.0	3.7	38.3	25.9	21.7	14.9	
B.C.	46.3	37.4	4.2	7.3	3.4	3.3	0.2	0.9	24.4	20.0	2.2	4.0	
Yukon	326.1	458.3	526.3	142.9	11.9	103.4	81.4	11.4	176.1	289.6	314.9	80.6	
N.W.T.	179.2	120.0	106.1	197.8	32.7	31.8	18.3	24.0	110.4	78.3	64.1	114.6	
Canada	88.4	80.8	77.2	67.5	8.1	7.7	7.4	6.6	47.2	43.3	41.4	36.3	

Province	Fail or Refuse to Provide Blood Sample												
	Male					Female					Total		
	1987	1988	1989	1990		1987	1988	1989	1990		1987	1988	1989
Nfld.	2.5	5.5	3.4	5.8	-	1.0	-	-	-	1.2	3.2	1.7	2.9
P.E.I.	13.1	13.0	14.8	10.6	-	-	-	-	-	6.4	6.3	7.3	5.2
N.S.	9.6	10.7	11.0	14.2	0.9	1.2	0.9	0.6	5.1	5.8	5.8	7.2	
N.B.	13.2	9.2	12.2	12.0	0.7	-	1.1	1.1	6.8	4.5	6.5	6.4	
Que.	1.7	1.9	3.9	2.5	0.2	0.2	0.6	0.3	0.9	1.0	2.2	1.3	
Ont.	1.5	1.4	1.5	1.6	0.0	0.1	0.1	0.1	0.7	0.7	0.8	0.8	
Man.	4.8	6.6	6.6	4.8	-	0.2	0.5	0.5	2.4	3.3	3.4	2.6	
Sask.	5.8	2.8	3.0	3.9	0.3	0.5	0.8	1.1	3.0	1.6	1.9	2.5	
Alta.	2.2	1.9	1.1	1.3	-	0.1	0.1	0.1	1.1	1.0	0.6	0.7	
B.C.	1.7	1.1	1.4	1.5	-	0.2	0.2	-	0.8	0.6	0.8	0.7	
Yukon	-	20.8	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-	-
Canada	2.6	2.5	3.0	2.8	0.1	0.2	0.3	0.2	1.3	1.3	1.7	1.5	

TABLE E.4 (Concluded)

PERSONS<sup>1</sup> CHARGED WITH ALCOHOL-RELATED TRAFFIC OFFENCES BY SEX, RATES PER 100,000 POPULATION AGED 16 AND OVER, CANADA AND PROVINCES, 1987 TO 1990

Province	Total <sup>2</sup> Alcohol-Related Traffic Offences													
	Male						Female						Total	
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990		
Nfld.	1,493.7	1,483.3	1,421.1	1,126.3	47.3	55.9	53.2	59.5	761.8	759.5	728.0	586.3		
P.E.I.	1,912.5	1,624.2	1,347.5	1,235.2	202.1	110.9	83.2	54.7	1,036.3	848.4	701.6	631.5		
N.S.	1,470.0	1,431.6	1,236.4	1,273.5	92.3	100.9	80.2	95.7	762.6	747.5	641.5	667.2		
N.B.	1,723.8	1,497.5	1,457.7	1,442.4	92.8	89.1	87.3	91.2	888.5	774.8	753.8	749.7		
Que.	1,014.0	941.0	885.3	841.6	50.5	48.3	55.7	56.4	516.0	479.5	456.3	435.7		
Ont.	1,008.4	970.4	965.6	873.7	94.5	87.7	90.5	80.9	537.4	515.9	515.4	465.9		
Man.	1,499.9	1,248.0	1,176.1	1,074.6	142.1	127.5	140.3	135.2	802.7	672.7	643.8	592.2		
Sask.	2,025.0	1,813.9	1,797.5	1,833.9	254.6	233.3	246.6	266.2	1,131.0	1,014.7	1,011.9	1,039.0		
Alta.	2,026.0	1,843.4	1,783.1	1,667.8	239.0	212.8	220.4	216.8	1,132.5	1,026.1	996.8	937.8		
B.C.	1,175.0	1,121.2	1,056.8	1,001.1	118.9	119.3	111.2	106.5	635.7	609.2	573.7	543.8		
Yukon	5,271.7	5,687.5	4,410.5	4,551.0	773.8	862.1	662.8	488.6	3,125.0	3,393.4	2,629.8	2,629.0		
N.W.T.	2,861.3	3,154.3	2,648.0	2,011.0	300.7	273.9	317.1	353.3	1,659.5	1,792.2	1,533.5	1,217.8		
Canada	1,239.6	1,156.1	1,110.0	1,037.8	106.6	99.9	102.5	99.3	658.5	614.3	593.1	556.2		

1.2 See corresponding note in Table E.3

Source: Traffic enforcement data were obtained from the Canadian Centre for Justice Statistics, Statistics Canada.



TABLE E.5

**SENTENCED ADMISSIONS<sup>1</sup> TO PROVINCIAL ADULT CORRECTIONAL SERVICE FACILITIES FOR DRINKING AND DRIVING OFFENCES,<sup>2</sup> CANADA AND PROVINCES, 1984-85 TO 1989-90**

Province	Number of Drinking/Driving Sentenced Admissions <sup>3</sup>					
	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
Nfld.	854	754	423	629	696	546
P.E.I.	282	259	981	928	931	728
N.S. <sup>4</sup>	371	494	445	495	523	283
N.B.	1,055	1,034	1,191	1,262	1,109	954
Que. <sup>5</sup>	2,072 <sup>6</sup>	2,581	1,851	1,630	1,794	1,698
Ont.	8,943	9,080	7,702	6,704	6,168	5,378
Man. <sup>7</sup>	1,229	1,275	1,373	1,075	1,280	749
Sask.	1,878	1,698	1,750 <sup>8</sup>	1,968 <sup>8</sup>	1,744 <sup>8</sup>	1,737 <sup>8</sup>
Alta. <sup>6</sup>	1,888	2,290	2,884	3,062	2,885	1,926
B.C.	4,118	3,473 <sup>8</sup>	3,157 <sup>8</sup>	2,762 <sup>8</sup>	2,564 <sup>8</sup>	2,473 <sup>8</sup>
Yukon <sup>6</sup>	111	139	123	143	114	93
N.W.T. <sup>6</sup>	37	42	23	..	10	..
Canada <sup>9</sup>	22,838	23,119	21,903	20,658	19,818	16,566

Province	Percentage of Sentenced Drinking/Driving Admissions Relative to Total Sentenced Admissions					
	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
Nfld.	35 %	33 %	23 %	32 %	35 %	30 %
P.E.I.	27	29	59	60	62	53
N.S. <sup>4</sup>	9	16	15	17	20	16
N.B.	24	28	33	34	33	31
Que. <sup>5</sup>	12 <sup>6</sup>	14	11	10	10	9
Ont.	18	19	17	15	14	12
Man. <sup>7</sup>	25	24	22	17	25	22
Sask.	25	25	26 <sup>8</sup>	25 <sup>8</sup>	23 <sup>8</sup>	23 <sup>8</sup>
Alta. <sup>6</sup>	10	12	15	15	14	9
B.C.	34	33 <sup>8</sup>	30 <sup>8</sup>	27 <sup>8</sup>	26 <sup>8</sup>	25 <sup>8</sup>
Yukon <sup>6</sup>	23	25	22	27	23	21
N.W.T. <sup>6</sup>	4	5	3	..	1	..
Canada <sup>9</sup>	18	19	19	18	17	14

<sup>1</sup> Sentenced admissions refer to the number of persons admitted to custody under a warrant of committal handed down by a court, judge or magistrate. Also included are persons sentenced on one offence but who are awaiting the completion of court hearings on another charge. The total number of admissions does not necessarily represent an unduplicated count of individuals since a person may be admitted, released and readmitted to custody within the same year.

<sup>2</sup> Includes persons sentenced and admitted to custody whose most serious offence was either impaired driving, blood/alcohol over .08, or refusing a breathalyzer.

<sup>3</sup> Data have been estimated on the basis of the reported percentage of sentenced drinking/driving admissions relative to the total number of sentenced admissions.



## TABLE E.5 (Concluded)

### SENTENCED ADMISSIONS<sup>1</sup> TO PROVINCIAL ADULT CORRECTIONAL SERVICE FACILITIES FOR DRINKING AND DRIVING OFFENCES,<sup>2</sup> CANADA AND PROVINCES, 1984–85 TO 1989–90

<sup>4</sup> Includes only those offenders who were both admitted and released during the calendar year.

<sup>5</sup> Includes persons charged with dangerous driving and driving without a permit.

<sup>6</sup> Offence data are based on multiple charges which may result in double counting of some inmates.

<sup>7</sup> Excludes sentenced admissions to the Provincial Reformatory Centre.

<sup>8</sup> Admissions are based on the offence with the longest reported sentence (most serious disposition).

<sup>9</sup> Based on data from those provinces which reported in a given year.

Sources: Statistics Canada, Adult Correctional Services in Canada 1988–89 and 1989–90 (Ottawa: Statistics Canada, Catalogue No. 85–211, 1989 and 1990 respectively).

TABLE E.6

DISTRIBUTION OF BLOOD ALCOHOL CONCENTRATION (BAC)  
AMONG FATALLY<sup>1</sup> INJURED DRIVERS<sup>2</sup>, CANADA, 1989

Province	Number of :		Drivers Tested Grouped by BAC (mg%)				
	Drivers	Drivers tested	Zero	1-49	50-80	81-150	>150
Nfld.	34	27 79.4%	13 48.1%	2 7.4%	-	3 11.1%	9 33.3%
P.E.I.	7	5 71.4	2 40.0	-	-	2 40.0	1 20.0
N.S.	76	48 63.2	18 37.5	3 6.3	2 4.2	6 12.5	19 39.6
N.B.	79	49 62.0	24 49.0	-	2 4.1	8 16.3	15 30.6
Que.	664	432 65.1	206 47.7	16 3.7	13 3.0	51 11.8	146 33.8
Ont.	746	619 83.0	361 58.3	37 6.0	16 2.6	51 8.2	154 24.9
Man.	83	72 86.7	36.0 50.0	9.0 12.5	2.0 2.8	7.0 9.7	18.0 25.0
Sask.	121	104 86.0	51 49.0	4 3.8	3 2.9	9 8.7	37 35.6
Alta.	280	243 86.8	139 57.2	5 2.1	5 2.1	34 14.0	60 24.7
B.C.	304	274 90.1	153 55.8	14 5.1	9 3.3	35 12.9	63 23.0
Yukon	5	4 80.0	1 25.0	1 25.0	-	-	2 50.0
N.W.T.	4	4 100.0	3 75.0	-	-	-	1 25.0
Canada	2,045	1,881 78.2	1,007 53.5	91 4.8	52 2.8	206 11.0	525 27.9

TABLE E.6 (Concluded)

**DISTRIBUTION OF BLOOD ALCOHOL CONCENTRATION (BAC)  
AMONG FATALLY<sup>1</sup> INJURED DRIVERS<sup>2</sup>, CANADA, 1989**

Age	Number of :		% of Drivers Tested Grouped by BAC (mg%)				
	Drivers	Drivers tested	Zero	1-49	50-80	81-150	>150
< 16	19	12 63.2%	5 41.7%	2 16.7%	2 16.7%		3 25.0%
16-17	108	75 69.4	48 64.0	7 9.3	6 8.0	9 12.0	5 6.7
18-19	172	140 81.4	72 51.4	10 4.5	6 2.4	23 5.2	29 36.4
20-25	475	383 80.6	165 43.1	24 6.3	12 3.1	66 17.2	116 30.3
26-35	614	518 84.4	234 45.2	14 2.7	12 2.3	65 12.5	193 37.3
36-45	359	286 79.7	147 51.4	13 4.5	7 2.4	15 5.2	104 36.4
46-55	205	157 76.6	105 66.9	7 4.5		9 5.7	36 22.9
> 55	453	310 68.4	231 74.5	14 4.5	7 2.3	19 6.1	39 12.6
<b>Total</b>	<b>2,405</b>	<b>1,881</b> <b>78.2</b>	<b>1,007</b> <b>53.5</b>	<b>91.0</b> <b>4.8</b>	<b>52.0</b> <b>2.8</b>	<b>206</b> <b>11.0</b>	<b>525</b> <b>27.9</b>

<sup>1</sup> Includes drivers dying within 12 months as a result of injuries sustained in a collision involving a motor vehicle.

<sup>2</sup> Includes drivers of automobiles, non-articulated trucks/vans, motorcycles, tractor trailers and buses. Excluded are operators of snowmobiles, other off-road vehicles, and bicycles.

Source: Road Safety, Transport Canada, Alcohol Use Among Persons Fatally Injured In Motor Vehicle Accidents: Canada, 1989 (Ottawa: Transport Canada, the Traffic Injury Research Foundation of Canada, March 1991).

**TABLE E.7**

**DISTRIBUTION OF BLOOD ALCOHOL CONCENTRATION (BAC)  
AMONG FATALLY INJURED DRIVERS, CANADA  
(SEVEN PROVINCES), 1980 TO 1989**

Year	Number of:		Driver Tested Grouped by BAC (mg%)			
	Drivers	Drivers Tested	Zero	1-80	81-150	>150
1980	1,423	1,136 79.8%	455 40.1%	129 11.4%	161 14.2%	391 34.4%
1981	1,549	1,326 85.6	504 38.0	132 10.0	212 16.0	478 36.0
1982	1,312	1,098 83.7	432 39.3	117 10.7	162 14.8	387 35.2
1983	1,345	1,193 88.7	502 42.1	120 10.1	135 11.3	436 36.5
1984	1,207	1,079 89.4	470 43.6	112 10.4	148 13.7	349 32.3
1985	1,269	1,146 90.3	551 48.1	120 10.4	136 11.9	339 29.6
1986	1,277	1,177 92.2	561 47.7	89 7.6	132 11.2	395 33.6
1987	1,413	1,257 89.0	623 49.6	104 8.3	131 10.4	399 31.7
1988	1,333	1,225 91.9	629 51.3	125 10.2	116 9.5	355 29.0
1989	1,423	1,301 91.4	734 56.4	99 7.6	134 10.3	334 25.7

<sup>1</sup> Includes only drivers that died within 6 hours of their accidents, as result figures should not be compared to data in Table E.6.

<sup>2</sup> Includes drivers of automobiles, non-articulated trucks/vans, motorcycles, tractor trailers and buses. Excluded are operators of snowmobiles, other off-road vehicles, and bicycles.

<sup>3</sup> Includes data for the origin seven provinces that have been participating in this system since 1973: Prince Edward Island, New Brunswick, Ontario, Manitoba, Saskatchewan, Alberta, and British Columbia.

Source: Road Safety, Transport Canada, Alcohol Use Among Persons Fatally Injured In Motor Vehicle Accidents: Canada, 1989 (Ottawa: Transport Canada, the Traffic Injury Research Foundation of Canada, March 1991).





**Chapter F** \_\_\_\_\_  
**LIQUOR ACT OFFENCES IN CANADA**

# Chapter F

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## LIQUOR ACT OFFENCES IN CANADA

### Figures

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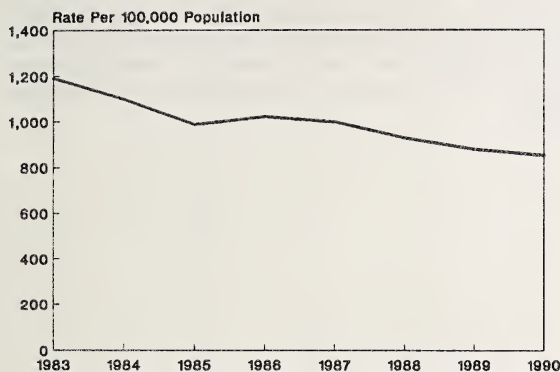
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## F. LIQUOR ACT OFFENCES IN CANADA

### Highlights

In Canada, the control and sale of liquor is regulated by legislation in each province. As a result interprovincial comparisons *cannot* be made. For example, it was noted in Chapter C that Quebec has one of the highest level of alcohol consumption, but due to different enforcement policy, it has the lowest number of offences. In Ontario, the Liquor Licence Act defines among other things the legal drinking age (Table F.1 presents the legal drinking age of each province); restrictions on licensed premises; prohibition on serving intoxicated persons; prohibition against public intoxication; and rules governing public transporting of alcohol.

**Figure F.1**  
**Liquor Act Offences Per 100,000 Population,**  
**Canada, 1983 to 1990**



The number of juveniles involved (either charged or dealt with informally) with provincial liquor act violations decreased by 9% to 22,365 in 1990 and 18% from the peak of 27,375 recorded in 1987. (Table F.3).

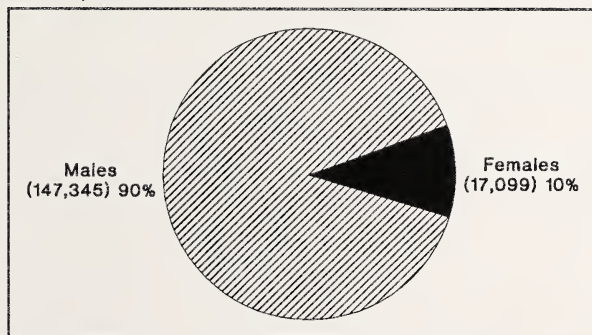
The number of adults charged with liquor act offences also declined in 1990, continuing a trend which has been evident since 1983 (Table F.4). In 1990, 164,444 adults were charged, a decline of 9% from 1989 and 21% from 1986. Figure F.2 shows that males represented 90% of all adults charged, a trend that has not changed significantly over time. Table F.5 presents the corresponding rates per 100,000 population aged 18 and over.

In 1990, there were 226,310 provincial liquor act offences, representing 65% of all offences reported under provincial statutes (excluding traffic offences).

Figure F.1 shows the rate of offences per 100,000 population from 1983 to 1990 (Table F.2). This rate has declined by over 28% since 1983. Generally, all provinces experienced a decline in this period.

Nationally, during 1990 there were 851 offences per 100,000 population (Table F.2). The Northwest Territories, the Yukon and Prince Edward Island all recorded rates in excess of 2,500 offences per 100,000 population. At the other extreme, Quebec had a rate of 27 offences per 100,000 population.

**Figure F.2**  
**Adults Charged Under Provincial Liquor Acts by Sex,**  
**Canada, 1990**





## Explanatory Notes

Data in this section are based on information recorded by the Uniform Crime Reporting (UCR) system. For additional information regarding definitions and methods of data collection under the UCR system see Appendix B.

Persons charged do not represent an unduplicated count of individuals charged during the year, as a person is counted on each occasion that s/he has been charged with having committed an offence.

This data does not include offences/charges under the Intoxicated Persons Act in Alberta, the Yukon and the Northwest Territories.

Finally, charges involving juveniles for the years 1983 and 1984 are based on the provisions of the Juvenile Delinquents Act which defined a juvenile as any boy or girl under the age of 16 years or other such age as directed by the province. In April of 1985 the age limit of juveniles was extended to under the age of 18 as a result of the implementation of the Young Offenders Act. This definition only applies to offences under the Criminal Code and other Federal Statutes. For offences falling under provincial statutes or municipal by-laws, a juvenile can still be dealt with under provincial legislation and the provincial age limits which apply. Beginning in April 1984 procedural aspects of the Young Offenders Act were implemented into the UCR system resulting in noticeable irregularities in data reported for the period 1983 to 1985 as a result only data after 1985 has been included.

## **References**

Statistics Canada, Canadian Crime Statistics 1983, 1984, 1985, 1990 (Ottawa: Statistics Canada, Catalogue No. 85-205, 1985, 1985, 1986 and 1991 respectively).

Data for the years 1986 to 1989 were obtained from the Canadian Centre for Justice Statistics, Statistics Canada.

Statistics Canada, Adult Correctional Services in Canada 1988-89, and 1989-90 (Ottawa: Statistics Canada, Catalogue No. 85-211, 1989 and 1990).

**TABLE F.1**

**LEGAL DRINKING AGE BY PROVINCE**

<b>Province</b>	<b>Present Legal Age</b>	<b>Former Legal Age</b>	<b>Date of Change</b>
Newfoundland	19	21	July 25, 1972
Prince Edward Island	19	18	July 1, 1987
Nova Scotia	19	21	April 13, 1971
New Brunswick	19	21	August 1, 1972
Quebec	18	20	July, 1971
Ontario	19	18	January 1, 1979
Manitoba	18	21	August 1, 1970
Saskatchewan	19	18	September 1, 1976
Alberta	18	21	April 1, 1971
British Columbia	19	21	April 15, 1970
Yukon	19	21	February, 1970
Northwest Territories	19	21	July 15, 1970

Sources: Adapted from Alcoholism and Drug Addiction Research Foundation, Information Centre, Information Review: Teenage Drinking in Ontario (Toronto: Alcoholism and Drug Addiction Research Foundation, 1978); Reginald G. Smart, The New Drinkers - Teenage Use and Abuse of Alcohol, 2nd ed., (Toronto: Alcoholism and Drug Addiction Research Foundation, 1980); additional information provided by provincial liquor authorities and verified by provincial addiction agencies.

TABLE F.2

**NUMBER AND RATES PER 100,000 POPULATION OF PROVINCIAL LIQUOR ACT OFFENCES, CANADA AND PROVINCES, 1983 TO 1990**

Province	Number of Liquor Acts Offences							
	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	4,575	5,373	5,896	5,581	6,646	6,409	6,618	5,922
P.E.I.	4,305	4,467	4,401	3,959	3,735	3,983	3,831	3,385
N.S.	22,294	17,186	17,202	15,921	15,945	14,652	14,986	16,088
N.B.	9,912	10,102	9,854	9,404	9,873	9,597	9,030	9,387
Que.	2,858	2,421	2,758	3,626	3,733	2,923	2,159	1,837
Ont.	143,862	137,483	120,449	137,399	129,255	123,650	117,652	106,851
Man.	11,913	10,480	11,066	9,529	9,276	8,141	7,804	7,769
Sask.	30,098	27,876	25,699	26,423	23,911	22,490	19,889	18,160
Alta. <sup>1</sup>	43,568	39,989	33,927	28,711	27,402	25,983	23,660	22,291
B.C.	19,284	17,029	14,880	16,241	23,837	20,005	22,097	31,979
Yukon <sup>1</sup>	661	774	938	891	703	969	1,012	736
N.W.T. <sup>1</sup>	1,665	1,397	1,455	1,553	1,446	1,557	1,802	1,737
<b>Canada</b>	<b>294,995</b>	<b>274,577</b>	<b>248,525</b>	<b>259,238</b>	<b>255,762</b>	<b>240,359</b>	<b>230,540</b>	<b>226,310</b>

Province	Liquor Acts Offences Per 100,000 Population							
	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	800.7	938.7	1,031.7	982.1	1,169.7	1,128.1	1,161.1	1,033.5
P.E.I.	3,480.2	3,570.7	3,492.9	3,127.2	2,934.0	3,094.8	2,942.4	2,595.9
N.S.	2,601.4	1,988.2	1,975.0	1,823.3	1,814.2	1,657.7	1,689.9	1,804.4
N.B.	1,409.6	1,427.0	1,388.1	1,323.8	1,386.1	1,343.4	1,256.8	1,296.7
Que.	44.1	37.3	42.3	55.4	56.6	44.0	32.3	27.2
Ont.	1,635.2	1,544.5	1,337.4	1,507.7	1,394.2	1,311.1	1,229.4	1,098.0
Man.	1,139.3	993.3	1,040.0	889.6	859.7	750.5	719.8	712.8
Sask.	3,042.4	2,786.2	2,548.5	2,615.6	2,358.1	2,224.1	1,975.1	1,815.5
Alta. <sup>1</sup>	1,862.9	1,710.0	1,444.6	1,208.8	1,151.2	1,082.1	974.0	902.5
B.C.	685.3	598.0	518.4	562.2	814.7	670.4	723.2	1,021.1
Yukon <sup>1</sup>	2,886.5	3,350.6	3,991.5	3,791.5	2,881.1	3,830.0	3,984.3	2,830.8
N.W.T. <sup>1</sup>	3,411.9	2,788.4	2,803.5	2,975.1	2,796.9	3,005.8	3,374.5	3,216.7
<b>Canada</b>	<b>1,190.1</b>	<b>1,099.3</b>	<b>987.6</b>	<b>1,022.5</b>	<b>998.1</b>	<b>927.2</b>	<b>879.3</b>	<b>851.3</b>

<sup>1</sup> Does not include provincial/territorial offences under the Intoxicated Persons Act in Alberta, the Yukon and Northwest Territories.

Sources: Statistics Canada, *Canadian Crime Statistics 1983, 1984, 1985, and 1990* (Ottawa: Statistics Canada, Catalogue No. 85-205, 1985, 1985, 1986, and 1991 respectively). Data for the years 1986 to 1989 were obtained from the Canadian Centre for Justice Statistics, Statistics Canada.



**TABLE F.3**

**JUVENILE OFFENDERS<sup>1</sup> INVOLVED IN PROVINCIAL LIQUOR ACT OFFENCES, CANADA AND PROVINCES, 1986 TO 1990**

Province	1986	1987	1988	1989	1990
Nfld.	658	778	850	886	744
P.E.I.	196	222	282	300	303
N.S.	379	473	571	621	666
N.B.	548	712	709	796	797
Que.	2,132	1,904	1,880	1,182	1,531
Ont.	8,932	10,353	9,668	8,957	6,677
Man.	1,818	1,635	1,528	1,531	1,473
Sask.	782	931	817	694	823
Alta. <sup>2</sup>	2,484	2,649	2,865	2,705	2,582
B.C.	5,171	7,454	6,484	6,713	6,511
Yukon <sup>2</sup>	91	89	149	166	83
N.W.T. <sup>2</sup>	230	175	151	160	168
<b>Canada</b>	<b>23,421</b>	<b>27,375</b>	<b>25,954</b>	<b>24,711</b>	<b>22,365</b>

<sup>1</sup> Data includes both juveniles charged and juveniles not charged.

<sup>2</sup> Does not include provincial/territorial offences under the Intoxicated Persons Act in Alberta, the Yukon and Northwest Territories.

Sources: Statistics Canada, *Canadian Crime Statistics, 1990* (Ottawa: Statistics Canada, Catalogue No. 85-205, 1991). Data for the years 1986 to 1989 were obtained from the Canadian Centre for Justice Statistics, Statistics Canada.

TABLE F.4

## ADULTS CHARGED UNDER THE PROVINCIAL LIQUOR ACTS BY SEX, CANADA AND PROVINCES, 1983 TO 1990

Province	Males							
	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	4,490	4,769	5,108	4,427	5,269	4,579	4,367	3,532
P.E.I.	3,703	3,733	3,668	3,194	2,923	3,125	2,883	2,546
N.S.	19,138	13,810	13,989	12,979	12,738	11,416	11,860	12,612
N.B.	8,766	8,620	7,983	7,464	7,832	7,451	6,782	6,933
Que.	1,818	1,793	1,590	2,046	2,073	2,260	2,059	1,409
Ont.	125,726	119,605	101,610	111,196	105,188	101,714	95,117	83,410
Man.	7,865	6,797	7,067	5,782	5,164	4,459	4,076	3,996
Sask.	22,532	20,591	18,083	17,852	16,012	14,836	12,666	10,910
Alta. <sup>1</sup>	34,958	30,663	24,439	19,310	17,139	16,152	13,957	12,751
B.C.	5,068	3,499	2,236	2,555	7,556	6,596	8,205	8,140
Yukon <sup>1</sup>	300	424	430	397	362	429	455	339
N.W.T. <sup>1</sup>	1,052	775	680	645	657	712	835	623
<b>Canada</b>	<b>235,416</b>	<b>215,079</b>	<b>186,883</b>	<b>187,847</b>	<b>182,913</b>	<b>173,729</b>	<b>163,262</b>	<b>147,345</b>

Province	Females							
	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	373	282	274	245	267	301	332	240
P.E.I.	168	130	146	164	159	164	130	170
N.S.	1,147	727	611	586	717	613	623	712
N.B.	424	444	467	443	487	431	403	472
Que.	839	508	420	591	411	683	565	558
Ont.	10,864	11,246	10,088	11,995	10,948	11,267	10,666	9,913
Man.	954	837	882	823	742	634	566	612
Sask.	2,434	2,316	2,175	2,548	2,267	2,177	2,112	1,780
Alta. <sup>1</sup>	3,517	3,208	2,685	2,163	1,950	2,022	1,731	1,521
B.C.	693	460	348	356	904	758	875	907
Yukon <sup>1</sup>	61	87	82	71	61	77	81	59
N.W.T. <sup>1</sup>	221	155	142	132	113	175	217	142
<b>Canada</b>	<b>21,695</b>	<b>20,400</b>	<b>18,320</b>	<b>20,117</b>	<b>19,026</b>	<b>19,302</b>	<b>18,301</b>	<b>17,099</b>

Province	Total Adults Charged							
	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	4,863	5,051	5,382	4,672	5,536	4,880	4,699	3,772
P.E.I.	3,871	3,863	3,814	3,358	3,082	3,289	3,013	2,716
N.S.	20,285	14,537	14,600	13,565	13,455	12,029	12,483	13,324
N.B.	9,190	9,064	8,450	7,907	8,319	7,882	7,185	7,405
Que.	2,657	2,301	2,010	2,637	2,484	2,943	2,624	1,967
Ont.	136,590	130,851	111,698	123,191	116,136	112,981	105,783	93,323
Man.	8,819	7,634	7,949	6,605	5,906	5,093	4,642	4,608
Sask.	24,966	22,907	20,258	20,400	18,279	17,013	14,778	12,690
Alta. <sup>1</sup>	38,475	33,871	27,124	21,473	19,089	18,174	15,688	14,272
B.C.	5,761	3,959	2,584	2,911	8,460	7,354	9,080	9,047
Yukon <sup>1</sup>	361	511	512	468	423	506	536	398
N.W.T. <sup>1</sup>	1,273	930	822	777	770	887	1,052	765
<b>Canada</b>	<b>257,111</b>	<b>235,479</b>	<b>205,203</b>	<b>207,964</b>	<b>201,939</b>	<b>193,031</b>	<b>181,563</b>	<b>164,444</b>

**TABLE F.4 (Concluded)**

**ADULTS CHARGED UNDER THE PROVINCIAL LIQUOR ACTS  
BY SEX, CANADA AND PROVINCES, 1983 TO 1990**

<sup>1</sup> Does not include persons charged with provincial/territorial offences under the Intoxicated Persons Act in Alberta, the Yukon and Northwest Territories.

Sources: Statistics Canada, Canadian Crime Statistics 1983, 1984, 1985, and 1990 (Ottawa: Statistics Canada, Catalogue No. 85-205, 1985, 1985, 1986, and 1991 respectively). Data for the years 1986 to 1989 were obtained from the Canadian Centre for Justice Statistics, Statistics Canada.

TABLE F.5

**ADULTS CHARGED UNDER THE PROVINCIAL LIQUOR ACTS, BY SEX, RATES PER 100,000 POPULATION AGED 18 AND OVER, CANADA AND PROVINCES, 1983 TO 1990**

Province	Males							
	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	2,414.0	2,528.6	2,685.6	2,319.0	2,738.6	2,357.9	2,210.0	1,756.3
P.E.I.	8,692.5	8,581.6	8,355.4	7,209.9	6,553.8	6,913.7	6,253.8	5,522.8
N.S.	6,353.9	4,514.5	4,509.7	4,153.3	4,032.3	3,583.2	3,694.7	3,892.6
N.B.	3,617.8	3,504.1	3,217.7	2,990.4	3,112.9	2,940.4	2,645.1	2,659.4
Que.	78.3	76.6	67.5	86.3	86.4	93.2	84.0	56.8
Ont.	3,991.9	3,732.3	3,124.0	3,370.0	3,121.5	2,955.9	2,712.0	2,336.0
Man.	2,141.3	1,826.7	1,880.0	1,524.4	1,346.9	1,154.0	1,053.0	1,024.9
Sask.	6,506.5	5,864.7	5,109.6	5,038.7	4,495.2	4,176.8	3,580.0	3,098.6
Alta. <sup>1</sup>	4,145.9	3,646.0	2,900.8	2,270.4	2,009.3	1,877.9	1,605.0	1,441.4
B.C.	492.5	335.2	212.4	240.9	701.6	598.3	724.1	701.0
Yukon <sup>1</sup>	3,614.5	4,988.2	5,000.0	4,616.3	4,022.2	4,563.8	4,892.5	3,531.3
N.W.T. <sup>1</sup>	6,787.1	4,813.7	4,047.6	3,794.1	3,934.1	4,238.1	4,826.6	3,519.8
<b>Canada</b>	<b>2,659.4</b>	<b>2,400.4</b>	<b>2,064.7</b>	<b>2,055.5</b>	<b>1,973.2</b>	<b>1,846.7</b>	<b>1,709.7</b>	<b>1,519.3</b>

Province	Females							
	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	198.2	147.4	141.5	125.6	135.1	150.4	163.3	116.2
P.E.I.	378.4	287.6	318.8	353.4	339.0	343.8	269.2	350.5
N.S.	361.9	225.4	186.7	177.4	214.5	181.5	182.7	206.7
N.B.	167.5	172.4	179.4	168.8	183.8	161.0	148.4	171.6
Que.	33.9	20.3	16.7	23.2	16.0	26.3	21.5	21.0
Ont.	324.1	329.4	290.7	340.4	304.8	307.8	286.4	261.5
Man.	245.6	212.5	221.4	204.7	182.9	155.2	138.1	148.4
Sask.	693.2	649.3	603.3	704.1	623.0	598.2	580.4	491.2
Alta. <sup>1</sup>	427.7	387.8	321.3	254.6	228.2	233.5	196.3	169.6
B.C.	65.0	42.5	31.8	32.2	80.3	65.7	73.8	74.6
Yukon <sup>1</sup>	813.3	1,144.7	1,064.9	910.3	743.9	905.9	964.3	678.2
N.W.T. <sup>1</sup>	1,613.1	1,091.5	959.5	880.0	758.4	1,151.3	1,364.8	876.5
<b>Canada</b>	<b>233.9</b>	<b>216.8</b>	<b>192.2</b>	<b>208.6</b>	<b>194.5</b>	<b>194.4</b>	<b>181.5</b>	<b>167.0</b>

Province	Total							
	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	1,299.6	1,329.6	1,402.3	1,210.7	1,419.5	1,237.6	1,172.1	925.2
P.E.I.	4,449.4	4,355.1	4,252.0	3,702.3	3,368.3	3,540.4	3,191.7	2,871.0
N.S.	3,281.8	2,313.0	2,290.2	2,110.3	2,069.7	1,832.6	1,885.6	1,993.1
N.B.	1,854.7	1,800.2	1,662.1	1,544.3	1,610.6	1,512.6	1,361.1	1,382.3
Que.	55.4	47.6	41.2	53.6	49.9	58.6	51.7	38.3
Ont.	2,100.7	1,977.0	1,661.6	1,805.4	1,668.3	1,590.9	1,462.7	1,267.6
Man.	1,167.0	996.7	1,026.6	845.4	748.5	640.7	582.4	574.3
Sask.	3,579.9	3,236.4	2,835.7	2,848.4	2,538.4	2,365.9	2,059.1	1,776.1
Alta. <sup>1</sup>	2,310.1	2,030.4	1,616.4	1,263.0	1,118.0	1,053.0	895.6	801.2
B.C.	275.0	186.1	120.3	134.3	384.0	325.9	391.6	380.5
Yukon <sup>1</sup>	2,284.8	3,173.9	3,141.1	2,853.7	2,459.3	2,826.8	3,028.2	2,174.9
N.W.T. <sup>1</sup>	4,359.6	3,069.3	2,601.3	2,428.1	2,436.7	2,771.9	3,168.7	2,256.6
<b>Canada</b>	<b>1,418.2</b>	<b>1,281.7</b>	<b>1,104.3</b>	<b>1,107.2</b>	<b>1,060.0</b>	<b>998.2</b>	<b>924.8</b>	<b>824.8</b>

For sources and footnotes see Table F.4



**TABLE F.6**

**SENTENCED ADMISSIONS<sup>1</sup> TO PROVINCIAL ADULT CORRECTIONAL SERVICE FACILITIES FOR PROVINCIAL LIQUOR ACT OFFENCES, CANADA AND PROVINCES, 1984-85 TO 1989-90**

Province	Estimated Number of Sentenced Admissions <sup>2</sup>					
	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
Nfld.	49	46	37	39	40	18
P.E.I.	262	393	266	186	180	179
N.S.	330	556	474	466	340	18
N.B. <sup>3</sup>	176	185	72	111	67	92
Que.	n.a.	n.a.	n.a.	3,748	4,305	4,529
Ont.	6,459	5,735	4,984	5,363	4,406	4,482
Man. <sup>4</sup>	295	266	312	316	102	68
Sask.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Alta. <sup>5</sup>	-	1,145	1,154	1,021	-	-
B.C.	..	..	..	..	..	..
Yukon <sup>5</sup>	29	44	50	27	20	13
N.W.T. <sup>5</sup>	55	51	39	26	29	-
Canada <sup>6</sup>	7,654	8,420	7,388	11,303	9,489	9,399

Province	Percentage of Sentenced Admissions Relative to Total Sentenced Admissions					
	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
Nfld.	2	2	2	2	2	1
P.E.I.	25	44	16	12	12	13
N.S.	8	18	16	16	13	1
N.B. <sup>3</sup>	4	5	2	3	2	3
Que.	n.a.	n.a.	n.a.	23	24	24
Ont.	13	12	11	12	10	10
Man. <sup>4</sup>	6	5	5	5	2	2
Sask.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Alta. <sup>5</sup>	-	6	6	5	-	-
B.C.	..	..	..	..	..	..
Yukon <sup>5</sup>	6	8	9	5	4	3
N.W.T. <sup>5</sup>	6	6	5	3	3	-
Canada <sup>6</sup>	6	7	6	10	8	8

<sup>1</sup> Sentenced admissions refer to the number of persons admitted to custody under a warrant of committal handed down by a court judge or magistrate. Also included are persons sentenced on one offence but who are awaiting the completion of court hearings on another charge. The total number of admissions does not necessarily represent an unduplicated count of individuals since a person may be admitted, released and readmitted to custody within the same year.

<sup>2</sup> Data have been estimated on the basis of the reported percentage of sentenced liquor act admissions relative to the total number of sentenced admissions.

<sup>3</sup> Includes only those offenders who were both admitted and released during the calendar year.



TABLE F.6 (Concluded)

**SENTENCED ADMISSIONS<sup>1</sup> TO PROVINCIAL ADULT CORRECTIONAL SERVICE FACILITIES FOR PROVINCIAL LIQUOR ACT OFFENCES, CANADA AND PROVINCES, 1984-85 TO 1989-90**

<sup>4</sup> Excludes sentenced admissions to the Provincial Remand Centre.

<sup>5</sup> Offence data are based on multiple charges which may result in double counting of some inmates.

<sup>6</sup> Based on data from those provinces which reported in a given year.

Sources: Statistics Canada, Adult Correctional Services in Canada 1988-89, 1989-90 (Ottawa: Statistics Canada, Catalogue No. 85-211, 1989 and 1990 respectively).



**Chapter G** \_\_\_\_\_  
**METHADONE AND DRUG USER STATISTICS**

## Chapter G

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# METHADONE AND DRUG USER STATISTICS

### Figures

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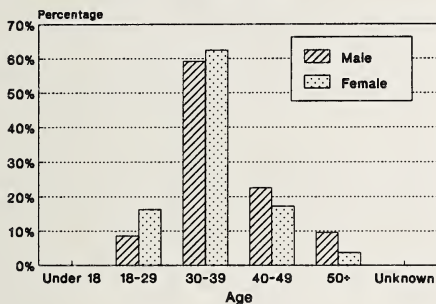
## G. METHADONE AND DRUG USER STATISTICS

### Highlights and Explanatory Notes

Methadone is used in the treatment of patients addicted to heroin or other opiates. In Canada, doctors treating patients with methadone are required to submit information regarding patients to the Bureau of Dangerous Drugs, Health and Welfare Canada. Tables G.1 and G.2 are derived from information in those reports.

In 1989, 1,459 persons were receiving methadone treatment, an increase of 15% from 1988. Patients treated in British Columbia accounted for 72% of this total, Quebec patients 13% and Ontario patients 6% (Table G.1). Males represented 60% of the patients treated both in 1988 and 1989.

**Figure G.1**  
Percentage Distribution of Methadone Patients By Age and Sex, Canada, 1989



**Figure G.2**  
Percentage Distribution of Methadone Patients By Sex and Length of Treatment, Canada, 1989

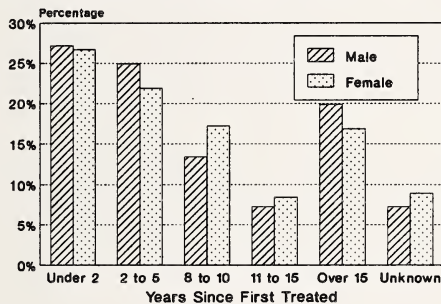


Figure G.1 presents the percentage distribution of methadone patients by age and sex (Table G.1). The largest proportion of methadone patients is in the 30 to 39 year age group (59% of males, 62% of females). Those aged 40 to 49 account for 23% of male patients and 17% of female patients.

Methadone patients are distributed according to the length of time since they first received treatment. Over 50% of males (48% of females) have been receiving treatment for under 6 years. At the other extreme, 20% of males (17% of females) have been receiving treatment for over 15 years (Figure G.2, Table G.1).

Eighty-one percent (81%) methadone patients have a history of intravenous drug use, and 64% have a history of needle sharing (Table G.2).

Tables G.3 through G.5 present drug user statistics. While this data is no longer published by the Bureau of Dangerous Drugs it is still available. However, readers are cautioned about making interpretations based on this data. According to the following excerpt from the preface the Bureau of Dangerous Drugs includes with this data:

".. user statistics should be interpreted with caution. Many Drug Offence Report forms received from some police agencies no longer report the status of a drug user. Other contributors of reports are also facing difficulty in determining the status of an individual respecting the use of drugs or substances. Many use multiple substances and the current

computer program in the Bureau, used to collect, manipulate and tabulate this data, will only permit an individual to be identified as the user of one drug at a given time. Past practice has been to prioritize a drug list and record the person as a user of that drug which is highest on the list. In the majority of cases, the determination of an individual's drug use is subjective and circumstantial and as such the accuracy of the data may suffer. Consequently, the data presented in this section does not represent all users of narcotic and restricted drugs, but merely those individuals reported as such."

Table G.3 presents characteristics of the narcotic drug user population in Canada. In 1989 there were 19,145 illicit narcotic drug users. The ratio of male users to female users was 4 to 1. Forty-seven percent (47%) of users were aged 30 to 39, 21% were between the ages of 25 and 29 and 16% were between the ages of 20 and 24. Cocaine was the most commonly reported drug representing 69% of users, followed by heroin 12% and codeine 7%.

Tables G.4 and G.5 present information on recorded hallucinogenic drug users. Unlike illicit narcotic drug users, the majority (63%) in 1989 were under the age of 25. Hallucinogenic drug users in 1989 were primarily recorded as users of LSD (53%) or Psilocybin (44%).

## **References**

Bureau of Dangerous Drugs, Health Protection Branch, Health and Welfare Canada, Narcotic Controlled and Restricted Drug Statistics - Tables Report, 1989 (Ottawa: Health and Welfare Canada, undated).

Bureau of Dangerous Drugs, Health Protection Branch, Health and Welfare Canada, Narcotic Controlled and Restricted Drug Statistics - Analysis Report, 1989 (Ottawa: Health and Welfare Canada, undated).

Unpublished data obtained from the Bureau of Dangerous Drugs Health Protection Branch, Health and Welfare Canada.

TABLE G.1

## REPORTED PATIENTS RECEIVING METHADONE, CANADA, 1988 AND 1989

Province	Methadone Patients by Province					
	Male		Female		Total	
	1988	1989	1988	1989	1988	1989
Nfld.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
P.E.I.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
N.S.	2	3	2	—	4	3
N.B.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Que.	113	121	56	65	169	186
Ont.	104	59	49	30	153	89
Man.	9	14	8	10	17	24
Sask.	10	17	3	5	13	22
Alta.	31	45	23	33	54	78
B.C.	487	619	370	438	857	1,057
Yukon & N.W.T.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Canada</b>	<b>756</b>	<b>878</b>	<b>511</b>	<b>581</b>	<b>1,267</b>	<b>1,459</b>

Age Group	Methadone Patients by Age					
	Male		Female		Total	
	1988	1989	1988	1989	1988	1989
Under 18	1	—	—	—	1	—
18–29	81	76	107	95	188	171
30–39	473	520	306	363	779	883
40–49	127	198	72	101	199	299
50 and Over	73	84	21	22	94	106
Not specified	1	—	5	—	6	—
<b>Canada</b>	<b>756</b>	<b>878</b>	<b>511</b>	<b>581</b>	<b>1,267</b>	<b>1,459</b>

Years Since First Treated	Methadone Patients by Duration of Treatment					
	Male		Female		Total	
	1988	1989	1988	1989	1988	1989
Under 2	15	239	13	155	28	394
2 – 5	96	219	94	127	190	346
6 – 10	125	118	111	100	236	218
11 – 15	117	64	84	49	201	113
Over 15	224	174	119	98	343	272
Not Specified	179	64	90	52	269	116
<b>Total</b>	<b>756</b>	<b>878</b>	<b>511</b>	<b>581</b>	<b>1,267</b>	<b>1,459</b>

Sources: Bureau of Dangerous Drugs, Health Protection Branch, Health and Welfare Canada, Narcotic, Controlled and Restricted Drugs Statistics – Tables Report 1989 (Ottawa: Health and Welfare Canada, undated).

**TABLE G.2**

**INTRAVENOUS DRUG USE AND NEEDLE SHARING HISTORY OF REPORTED METHADONE PATIENTS, CANADA, 1988 AND 1989**

**History of Intravenous Drug Use**

	Male		Female		Total	
	1988	1989	1988	1989	1988	1989
Yes	497	713	375	462	872	1,175
No	18	37	15	22	33	59
Not Specified	241	128	121	97	362	225
<b>Total</b>	<b>756</b>	<b>878</b>	<b>511</b>	<b>581</b>	<b>1,267</b>	<b>1,459</b>

**History of Needle Sharing**

	Male		Female		Total	
	1988	1989	1988	1989	1988	1989
Yes	388	559	294	368	682	927
No	108	148	84	94	192	242
Not Specified	260	171	133	119	393	290
<b>Total</b>	<b>756</b>	<b>878</b>	<b>511</b>	<b>581</b>	<b>1,267</b>	<b>1,459</b>

Sources: Bureau of Dangerous Drugs, Health Protection Branch, Health and Welfare Canada, Narcotic, Controlled and Restricted Drugs Statistics, Tables Report 1989 (Ottawa: Health and Welfare Canada, undated).



TABLE G.3

## SELECTED CHARACTERISTICS OF THE ILLICIT NARCOTIC<sup>1</sup> DRUG USER POPULATION, CANADA, 1983 TO 1989

Characteristics	Number of Users						
	1983	1984	1985	1986	1987	1988	1989
<b>All Users</b>	16,361	17,387	15,931	11,203	12,586	16,096	19,145
<b>Sex:</b>							
Male	12,802	13,601	12,383	8,695	9,824	12,683	15,291
Female	3,559	3,786	3,548	2,508	2,762	3,413	3,854
<b>Age:</b>							
Under 20	159	150	163	425	735	142	166
20 – 24	2,040	1,910	1,792	2,631	4,324	2,542	3,013
25 – 29	5,409	5,245	4,766	3,475	2,911	3,432	3,994
30 – 39	6,580	7,675	7,049	3,646	3,608	7,563	8,943
40 – 49	1,211	1,387	1,311	785	592	1,633	2,060
50 – 59	369	382	326	158	116	291	356
60 and over	148	171	160	83	57	126	137
Unknown	445	467	364	–	243	367	476
<b>Sources of Information:</b>							
Pharmacy Sales Reports	465	483	305	253	514	642	672
Treatment Centres	1,920	2,032	2,053	1,016	682	749	765
Police Reports	12,477	13,210	11,972	8,576	9,910	12,850	15,639
Other Means	1,499	1,662	1,601	1,358	1,480	1,855	2,069
<b>Drugs Involved:</b>							
Cocaine	4,869	5,937	6,641	6,256	7,692	10,445	13,156
Heroin	5,813	5,478	3,275	1,823	1,786	2,109	2,309
Codeine	n.a.	n.a.	n.a.	677	851	1,103	1,276
PCP	2,591	2,552	1,987	620	520	530	444
Methadone	n.a.	n.a.	n.a.	504	304	321	307
Hydrocodone	n.a.	n.a.	n.a.	354	311	312	277
Other	3,088	3,420	4,028	969	1,122	1,276	1,376

TABLE G.3 (Concluded)

## SELECTED CHARACTERISTICS OF THE ILLICIT NARCOTIC<sup>1</sup> DRUG USER POPULATION, CANADA, 1983 TO 1989

Characteristics	Percentage Distribution of Users						
	1983	1984	1985	1986	1987	1988	1989
<b>All Users</b>	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>Sex:</b>							
Male	78.2	78.2	77.7	77.6	78.1	78.8	79.9
Female	21.8	21.8	22.3	22.4	21.9	21.2	20.1
<b>Age:</b>							
Under 20	1.0	0.9	1.0	3.8	5.8	0.9	0.9
20 – 24	12.5	11.0	11.2	23.5	34.4	15.8	15.7
25 – 29	33.1	30.2	29.9	31.0	23.1	21.3	20.9
30 – 39	40.2	44.1	44.2	32.5	28.7	47.0	46.7
40 – 49	7.4	8.0	8.2	7.0	4.7	10.1	10.8
50 – 59	2.3	2.2	2.0	1.4	0.9	1.8	1.9
60 and over	0.9	1.0	1.0	0.7	0.5	0.8	0.7
Unknown	2.7	2.7	2.3	–	1.9	2.3	2.5
<b>Sources of Information:</b>							
Pharmacy Sales Reports	2.8	2.8	1.9	2.3	4.1	4.0	3.5
Treatment Centres	11.7	11.7	12.9	9.1	5.4	4.7	4.0
Police Reports	76.3	76.0	75.1	76.6	78.7	79.8	81.7
Other Means	9.2	9.6	10.0	12.1	11.8	11.5	10.8
<b>Drugs Involved:</b>							
Cocaine	29.8	34.1	41.7	55.8	61.1	64.9	68.7
Heroin	35.5	31.5	20.6	16.3	14.2	13.1	12.1
Codeine	...	...	...	6.0	6.8	6.9	6.7
PCP	15.8	14.7	12.5	5.5	4.1	3.3	2.3
Methadone	...	...	...	4.5	2.4	2.0	1.6
Hydrocodone	...	...	...	3.2	2.5	1.9	1.4
Other	18.9	19.7	25.3	8.6	8.9	7.9	7.2

<sup>1</sup> Cannabis users are not included in this table.

**Note:** These statistics do not cover all persons in Canada who might have used the drugs concerned. All reported users may not have received convictions for an offence under the Narcotic Control Act or the Food and Drugs Act. Conversely, most persons who received convictions would be recorded as users.

**Sources:** Health and Welfare Canada, Bureau of Dangerous Drugs, Health Protection Branch, Narcotic, Controlled and Restricted Drug Statistics 1983, 1984, 1985, 1986 and 1987 (Ottawa: Health and Welfare Canada, undated). Data for 1988 and 1989 were obtained from the Bureau of Dangerous Drugs, Health and Welfare Canada.

TABLE G.4

NEW HALLUCINOGENIC DRUG CASES<sup>1</sup> BY AGE AND SEX,  
CANADA<sup>2</sup>, 1983 TO 1989

Age	Male						
	1983	1984	1985	1986	1987	1988	1989
Under 20	204	143	146	182	195	206	200
20 - 24	337	219	259	316	327	282	239
25 - 29	153	124	130	132	190	147	146
30 - 34	73	47	47	68	95	59	71
35 - 39	25	18	18	35	47	26	22
40 - 49	8	12	11	12	14	15	10
50 and over	2	2	4	1	6	4	2
Unknown	3	3	1	6	8	4	7
<b>Total</b>	<b>805</b>	<b>568</b>	<b>616</b>	<b>752</b>	<b>882</b>	<b>743</b>	<b>697</b>

Age	Female						
	1983	1984	1985	1986	1987	1988	1989
Under 20	28	16	14	34	23	20	20
20 - 24	43	41	26	29	34	32	18
25 - 29	27	15	16	23	26	17	11
30 - 34	9	6	4	3	17	11	7
35 - 39	3	3	3	3	6	4	2
40 - 49	—	1	1	2	1	4	2
50 and over	1	—	—	—	1	1	—
Unknown	—	—	—	—	—	1	4
<b>Total</b>	<b>111</b>	<b>82</b>	<b>64</b>	<b>94</b>	<b>108</b>	<b>90</b>	<b>64</b>

Age	Total Number						
	1983	1984	1985	1986	1987	1988	1989
Under 20	232	159	160	216	218	226	220
20 - 24	380	260	285	345	361	314	257
25 - 29	180	139	146	155	216	164	157
30 - 34	82	53	51	71	112	70	78
35 - 39	28	21	21	38	53	30	24
40 - 49	8	13	12	14	15	19	12
50 and over	3	2	4	1	7	5	2
Unknown	3	3	1	6	8	5	11
<b>Total</b>	<b>916</b>	<b>650</b>	<b>680</b>	<b>846</b>	<b>990</b>	<b>833</b>	<b>761</b>

<sup>1</sup> Drugs listed in schedule "H" of the Food and Drug Act.

<sup>2</sup> In 1983, an additional 26 males and 1 female who had previous schedule H records were recorded as users. The corresponding figures in 1984 were 12 males and 1 female, in 1985, 18 males, in 1986, 11 males and 1 female, in 1987, 22 males and 2 females, in 1988, 28 males and 2 females, and in 1989, 28 males and 2 females.

Sources: Bureau of Dangerous Drugs, Health Protection Branch, Health and Welfare Canada, Narcotic, Controlled and Restricted Drug Statistics 1983, 1984, 1985, 1986 and 1987 (Ottawa: Health and Welfare Canada, undated). Unpublished data for 1988 and 1989 were obtained from the Bureau of Dangerous Drugs, Health and Welfare Canada.

TABLE G.5

TYPE OF HALLUCINOGENIC DRUGS<sup>1</sup> USED BY SEX, CANADA<sup>2</sup>,  
1983 TO 1989

Type of Drug Used	Males						
	1983	1984	1985	1986	1987	1988	1989
LSD	464	303	318	362	419	356	363
MDA	24	13	13	14	4	4	2
LSD and MDA	6	2	—	2	1	—	—
LSD and Mescaline	—	—	1	—	3	3	1
LSD and Psilocybin	5	2	3	4	20	20	19
MDA and Mescaline	—	—	—	—	1	—	—
Mescaline	—	—	—	—	—	—	—
Psilocybin	305	248	281	366	431	360	311
MDA and Psilocybin	—	1	—	1	—	—	—
Psilocybin and Mescaline	—	1	—	1	—	—	1
Other	3	1	—	2	2	—	—
<b>Total</b>	<b>807</b>	<b>571</b>	<b>616</b>	<b>752</b>	<b>881</b>	<b>743</b>	<b>697</b>

Type of Drug Used	Females						
	1983	1984	1985	1986	1987	1988	1989
LSD	71	37	30	52	49	37	39
MDA	2	5	2	1	1	—	1
LSD and MDA	—	—	—	—	—	—	—
LSD and Mescaline	1	—	—	—	—	—	—
LSD and Psilocybin	1	3	1	3	3	3	2
MDA and Mescaline	—	—	—	—	—	—	—
Mescaline	—	—	—	—	—	—	—
Psilocybin	37	37	31	38	55	50	22
MDA and Psilocybin	—	—	—	—	—	—	—
Psilocybin and Mescaline	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—
<b>Total</b>	<b>112</b>	<b>82</b>	<b>64</b>	<b>94</b>	<b>108</b>	<b>90</b>	<b>64</b>

Type of Drug Used	Total Number						
	1983	1984	1985	1986	1987	1988	1989
LSD	535	340	348	414	468	393	402
MDA	26	18	15	15	5	4	3
LSD and MDA	6	2	—	2	1	—	—
LSD and Mescaline	1	—	1	—	3	3	1
LSD and Psilocybin	6	5	4	7	23	23	21
MDA and Mescaline	—	—	—	—	1	—	—
Mescaline	—	—	—	—	—	—	—
Psilocybin	342	285	312	404	486	410	333
MDA and Psilocybin	—	1	—	1	—	—	—
Psilocybin and Mescaline	—	1	—	1	—	—	1
Other	3	1	—	2	2	—	—
<b>Total</b>	<b>919</b>	<b>653</b>	<b>680</b>	<b>846</b>	<b>989</b>	<b>833</b>	<b>761</b>

<sup>1, 2</sup> See corresponding notes in Table G.4.

Sources: Bureau of Dangerous Drugs, Health Protection Branch, Health and Welfare Canada, *Narcotic, Controlled and Restricted Drug Statistics 1983, 1984, 1985, 1986 and 1987* (Ottawa: Health and Welfare Canada, undated). Unpublished data for 1988 and 1989 were obtained from the Bureau of Dangerous Drugs, Health and Welfare Canada.





**Chapter H** \_\_\_\_\_  
**DRUG-RELATED OFFENCES IN CANADA**

## Chapter H

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# DRUG-RELATED OFFENCES IN CANADA

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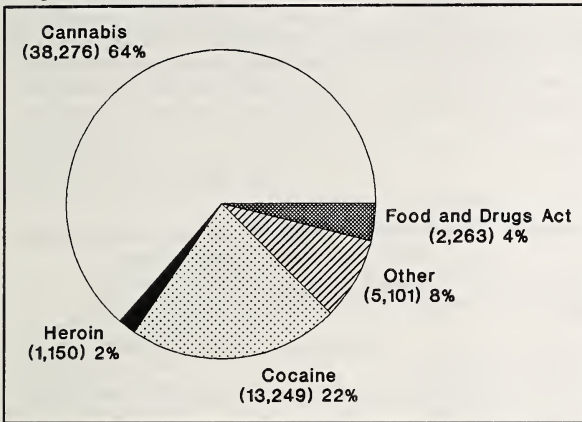


## H. DRUG-RELATED OFFENCES IN CANADA

### Highlights

In 1990 there were 60,039 drug-related offences in Canada (Table H.1). Offences under the Narcotic Control Act<sup>1</sup> accounted for 96% (57,776) of this total. The remaining 4% involved offences under the Food and Drugs Act<sup>1</sup> Parts III (Controlled Drugs) and IV (Restricted Drugs).

**Figure H.1**  
**Drug-Related Offences by Type of Drug, Canada, 1990**



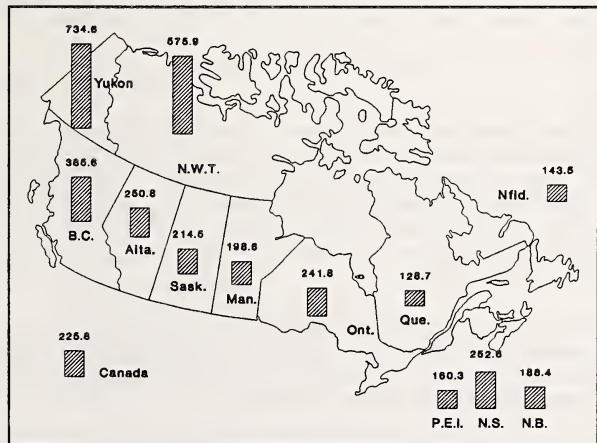
Sixty-four percent of all drug-related offences in 1990 involved cannabis, 22% cocaine, 2% heroin, and 8% other drugs under the Narcotic Control Act (Figure H.1).

While violations involving cannabis in 1990 have dropped 13% from its level in 1983, those involving other drugs have almost doubled. Offences involving cocaine grew from 3,275 in 1983 to 13,249 in 1990, a four-fold increase (Table H.1). Furthermore, offences involving other drugs under the Narcotic Control Act have increased from 2,763 in 1983 to 5,101 in 1990.

Over the eight-year period since 1983, offences involving controlled drugs have shown no change while offences involving restricted drugs have generally fallen (Table H.1).

Nationally, there were 225.8 drug-related offences per 100,000 population in 1990, a decrease of 13% from the 1989 level (Figure H.2, Table H.2). The highest rates were recorded in the Yukon (734.6 offences per 100,000 population), Northwest Territories (675.9) and British Columbia (385.6). Quebec, Newfoundland, and Prince Edward Island recorded the lowest rates with 128.7, 143.5 and 160.3 offences per 100,000 population respectively.

**Figure H.2**  
**Drug-Related Offences, Rates Per 100,000 Population, Canada and Provinces, 1990**



<sup>1</sup> See Text Tables H.1 and H.2 for drugs covered by each Act.



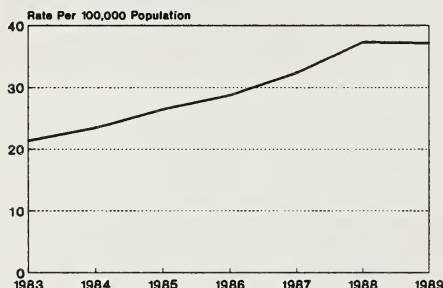
During 1990, 3,851 juveniles were involved (either charged or dealt with informally) in drug-related offences (Table H.3). Cannabis was involved in 83% of the charges, 7% involved cocaine, 6% heroin and other narcotic drugs, while the remaining 4% involved violations of the Food and Drugs Act.

Tables H.4 and H.5 present drug charges involving adults. In 1990, 87% of the 41,078 adults charged in Canada were male, a proportion that has not changed significantly since 1987. While 83% of juvenile charges involved cannabis, the comparable figure for adults was 68%. Cocaine was involved in 24% of adult charges, 2% heroin, 4% other narcotic drugs and 12% with violation of the Food and Drugs Act.

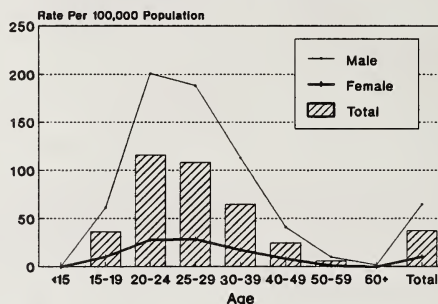
Data regarding drug-related convictions is maintained by the Bureau of Dangerous Drugs, Health and Welfare Canada. The reader is cautioned that convictions involving cannabis are *not* included in Tables H.6 through H.11.

Nationally there were 9,742 (37.2 convictions per 100,000 population) drug-related convictions in 1989 (Tables H.6 and H.7). British Columbia, the Yukon and Quebec recorded the highest conviction rate with 53.6, 51.2 and 50.8 convictions per 100,000 population respectively. Since 1983 the rate of convictions involving drugs other than cannabis has increased by 74% (Figure H.3) although in the last two years the rate was unchanged.

**Figure H.3**  
Drug-Related Convictions, Rates per 100,000 Population, Canada 1983 to 1989



**Figure H.4**  
Drug-Related Convictions by Age and Sex, Rates per 100,000 Population, Canada, 1989



Age and gender are also significant factors in drug-related convictions. In 1989, 51% of convictions involved persons between the ages of 20 and 29. Those aged 30 to 39 accounted for 30% of convictions while persons under the age of 20 accounted for 7% of convictions (Figure H.4, Tables H.8 and H.9). Corresponding age-specific rates of convictions are 116.6 convictions per 100,000 population aged 20 to 24; 108.4 convictions per 100,000 population aged 25 to 29; and 64.8 conviction per 100,000 population aged 30 to 39. Although the pattern of convictions by age group was similar for both sexes, it was higher in men than in women.

Under the Narcotic Control Act, in 1989 81% of convictions involved cocaine, 5% codeine, 4% heroin and 4% pentazocine (Table H.10). Methylphenidate was involved in 85% of convictions involving Controlled Drugs under the Food and Drugs Act, while LSD and Psilocybin accounted for 53% and 46% respectively of all convictions involving Restricted Drugs.

Sentenced admissions for drug-related offences accounted for 14% of all admissions to federal adult correctional facilities in 1989-90, and 6% of all admissions to provincial correctional facilities (Tables H.12 and H.13).

In 1989, there were 1,198 reported thefts and other losses involving narcotic and controlled drugs in Canada (Table H.14). Pharmacies and hospitals continue to be primary sources of loss, accounting for 62% (747 thefts) and 24% (284 thefts) of all losses. During the same year, there were 2,008 prescription forgeries reported, consisting primarily of codeine (33%), oxycodone (31%), and hydrocodone (12%).

The regional Health Protection Branch Laboratories of Health and Welfare Canada identified 61,508 drug samples in 1989 (Table H.17). Cannabis was involved in 59% (35,997) of the samples and cocaine 34% (20,668). Table H.18 presents data on the type and amount of drugs seized in Canada.

## **Explanatory Notes**

In Canada offences involving drugs fall under either the Narcotic Control Act or the Food and Drugs Act. Text Tables H.1 and H.2 provide a summary of the drugs each act covers, the defined offences and corresponding maximum penalties.

**Text Table H.1**

<b>NARCOTIC CONTROL ACT</b>	
Over 100 substances are mentioned in the Narcotic Control Act including:  cannabis, cocaine, heroin, anileridine, codeine, hydrocodone, hydromorphone, methadone, morphine, oxycodone, pentazocine, pethidine and phencyclidine	
<b>Offence</b>	<b>Maximum Penalty</b>
Possession	<b>Summary conviction</b> - first offence: 6 months and \$1,000 fine - subsequent offence: 1 year and \$2,000 fine <b>Indictment</b> - 7 years
Trafficking	<b>Indictment</b> - life
Possession for the purpose of trafficking	<b>Indictment</b> - life
Cultivation	<b>Indictment</b> - 7 years
Importing or exporting	<b>Indictment</b> - life
Prescription shopping (multiple doctoring)	<b>Summary conviction</b> - first offence: 6 months & \$1,000 fine - subsequent offence: 1 year and \$2,000 fine <b>Indictment</b> - 7 years

Source: Adapted from Robert Solomon and Sydney J. Usprich, An Introduction to Canadian Drug and Alcohol Law for Educators (Toronto: Addiction Research Foundation, 1990)

Text Table H.2

<b>FOOD AND DRUG ACT - CONTROLLED DRUGS (PART III, SCHEDULE G)</b>	
Schedule G contains about 15 drugs that generally have <i>both</i> medical and non-medical uses including:	
amphetamines, barbiturates, diethylpropion, methamphetamine, methylphenidate, phentermine	
<b>Offence</b>	<b>Maximum Penalty</b>
Trafficking	<b>Summary conviction</b> - 18 months <b>Indictment</b> - 10 years
Possession for the purpose of trafficking	<b>Summary conviction</b> - 18 months <b>Indictment</b> - 10 years
Prescription shopping (multiple doctoring)	<b>Summary conviction</b> - first offence: 6 months or \$1,000 fine - subsequent offence: 1 year or \$2,000 fine <b>Indictment</b> - 3 years or \$5,000 fine
<b>FOOD AND DRUG ACT - RESTRICTED DRUGS (PART IV, SCHEDULE H)</b>	
Schedule H contains about 25 drugs that generally have <i>no</i> medical uses including:	
LSD, M.D.A, and psilocybin	
<b>Offence</b>	<b>Maximum Penalty</b>
Possession	<b>Summary conviction</b> - first offence: 6 months or \$1,000 fine - subsequent offence: 1 year and \$2,000 fine <b>Indictment</b> - 3 years and \$5,000 fine
Trafficking	<b>Summary conviction</b> - 18 months <b>Indictment</b> - 10 years
Possession for the purpose of trafficking	<b>Summary conviction</b> - 18 months <b>Indictment</b> - 10 years

Source: Adapted from Robert Solomon and Sydney J. Usprich, An Introduction to Canadian Drug and Alcohol Law for Educators (Toronto: Addiction Research Foundation, 1990).

When examining drug-related legal statistics the following 2 quotes taken from the original source material should not be forgotten:

"a change in police reported drug offences does not mean that there was a corresponding increase or decrease in drug usage but may in fact reflect changes in police enforcement practices"<sup>2</sup>

and

"These statistics should be interpreted mainly as indicators of society's response to illicit drug use in Canada and only indirectly as approximate indicators of the actual drug use"<sup>3</sup>

For additional information regarding definitions and methods of data collection see Appendix B.

"Persons charged" does not represent an unduplicated count of individuals charged during the year, as a person is counted on each occasion that s/he has been charged with having committed an offence.

Finally, charges involving juveniles for the years 1983 and 1984 are based on the provisions of the Juvenile Delinquents Act which defined a juvenile as any boy or girl under the age of 16 years or other such age as directed by the province. In April of 1985 the age limit of juveniles was extended to under the age of 18 as a result of the implementation of the Young Offenders Act. This definition only applies to offences under the Criminal Code and other Federal Statutes. For offences falling under provincial statutes or municipal by-laws, a juvenile can still be dealt with under provincial legislation and the provincial age limits which apply. Beginning in April 1984 procedural aspects of the Young Offenders Act were implemented into the UCR system as a result there are noticeable irregularities in data reported for the period 1983 to 1985 and only data after 1985 has been included.

<sup>2</sup> Statistics Canada, Canadian Crime Statistics, 1990 (Ottawa: Statistics Canada, Catalogue No. 85-205, p. 45, 1991).

<sup>3</sup> Bureau of Dangerous Drugs, Health Protection Branch, Health and Welfare Canada, 1989 Narcotic, Controlled and Restricted Drug Statistics - Analysis Report (Ottawa: Health and Welfare Canada, p. i, 1989).



## **References**

Statistics Canada, Canadian Crime Statistics, 1983, 1984, 1985, 1986, 1987, 1988, 1989 and 1990 (Ottawa: Statistics Canada, Catalogue No. 85-205, 1985, 1985, 1986, 1987, 1989, 1990 and 1991 respectively).

Bureau of Dangerous Drugs, Health Protection Branch, Health and Welfare Canada, Narcotic, Controlled and Restricted Drug Statistics 1987, 1988 and Tables Report, 1989 (Ottawa: Health and Welfare Canada, undated).

Bureau of Dangerous Drugs, Health Protection Branch, Health and Welfare Canada, 1989 Narcotic, Controlled and Restricted Drug Statistics - Analysis Report (Ottawa: Health and Welfare Canada, page i, 1989).

Statistics Canada, Adult Correctional Services in Canada 1988-89, and 1989-90 (Ottawa: Statistics Canada, Catalogue No. 85-211, 1989 and 1990 respectively).

Robert Solomon and Sydney J. Usprich, An Introduction to Canadian Drug and Alcohol Law for Educators (Toronto: Addiction Research Foundation, 1990)



TABLE H.1

## NUMBER OF DRUG-RELATED OFFENCES UNDER THE FEDERAL DRUG ACTS, CANADA AND PROVINCES, 1983 TO 1990

		Narcotic Control Act – Cannabis						
Province	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	627	701	839	658	925	656	719	766
P.E.I.	196	251	243	171	153	151	146	161
N.S.	1,688	1,763	1,637	1,658	1,494	1,552	1,538	1,668
N.B.	1,228	1,535	1,765	1,430	1,324	1,128	1,376	1,092
Que.	5,384	4,369	4,482	5,128	4,620	4,048	3,559	3,696
Ont.	14,317	15,092	14,309	14,092	15,673	14,990	15,691	14,509
Man.	1,776	1,717	2,003	1,653	1,685	1,566	1,584	1,662
Sask.	2,019	2,242	2,446	2,040	1,828	1,620	1,451	1,352
Alta.	5,603	5,767	5,871	5,150	4,624	4,716	4,825	4,582
B.C.	10,539	9,890	9,647	9,121	10,343	9,715	9,413	8,289
Yukon	174	233	222	155	154	134	183	162
N.W.T.	248	357	339	258	249	208	255	331
<b>Canada</b>	<b>43,799</b>	<b>43,917</b>	<b>43,803</b>	<b>41,514</b>	<b>43,072</b>	<b>40,484</b>	<b>40,740</b>	<b>38,276</b>

		Narcotic Control Act – Cocaine						
Province	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	4	12	11	14	22	25	44	18
P.E.I.	2	3	3	2	2	10	19	16
N.S.	26	58	59	103	114	191	256	174
N.B.	35	40	27	69	98	86	302	129
Que.	1,139	1,543	1,727	2,359	2,867	3,531	4,356	3,507
Ont.	1,170	1,411	1,825	2,384	3,280	4,992	7,516	5,922
Man.	62	74	103	158	156	147	169	175
Sask.	56	43	84	72	83	79	115	83
Alta.	262	266	389	507	441	489	697	696
B.C.	510	649	641	1,044	1,117	1,589	2,908	2,485
Yukon	5	10	18	8	16	21	24	23
N.W.T.	4	10	13	9	6	17	16	18
<b>Canada</b>	<b>3,275</b>	<b>4,119</b>	<b>4,900</b>	<b>6,729</b>	<b>8,202</b>	<b>11,177</b>	<b>16,422</b>	<b>13,249</b>

		Narcotic Control Act – Heroin						
Province	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	1	–	10	–	–	1	1	–
P.E.I.	–	–	–	–	–	–	–	–
N.S.	1	–	3	–	15	6	6	1
N.B.	1	15	3	1	2	–	7	11
Que.	191	170	186	205	170	225	213	195
Ont.	355	179	273	347	269	410	425	515
Man.	1	5	12	6	1	5	3	1
Sask.	3	6	5	3	5	2	4	8
Alta.	34	29	18	18	8	10	30	19
B.C.	355	227	314	334	294	284	267	400
Yukon	–	1	–	–	–	–	1	–
N.W.T.	–	2	3	–	1	–	–	–
<b>Canada</b>	<b>942</b>	<b>634</b>	<b>827</b>	<b>914</b>	<b>765</b>	<b>943</b>	<b>957</b>	<b>1,150</b>

TABLE H.1 (Continued)

**NUMBER OF DRUG-RELATED OFFENCES UNDER THE FEDERAL DRUG ACTS, CANADA AND PROVINCES, 1983 TO 1990**

		<b>Narcotic Control Act – Other Drugs</b>						
<b>Province</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
Nfld.	20	7	45	33	36	45	17	9
P.E.I.	5	11	10	8	5	12	9	15
N.S.	123	86	64	47	43	83	184	224
N.B.	81	97	93	41	57	61	85	49
Que.	1,140	910	835	900	720	727	1,239	1,135
Ont.	769	1,425	2,344	1,555	2,527	1,631	2,713	1,921
Man.	121	89	172	421	932	856	1,627	122
Sask.	61	195	46	167	978	126	302	522
Alta.	145	125	355	259	353	1,066	735	600
B.C.	259	324	610	751	685	652	538	480
Yukon	4	4	–	5	1	3	3	4
N.W.T.	35	6	5	4	8	13	5	8
<b>Canada</b>	<b>2,763</b>	<b>3,279</b>	<b>4,579</b>	<b>4,191</b>	<b>6,345</b>	<b>5,275</b>	<b>7,457</b>	<b>5,101</b>

		<b>Food and Drugs Act – Controlled Drugs</b>						
<b>Province</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
Nfld.	3	1	7	3	3	–	–	8
P.E.I.	8	4	5	4	1	3	–	4
N.S.	18	6	5	18	50	12	24	77
N.B.	27	17	23	13	13	12	9	16
Que.	108	77	102	67	83	56	60	35
Ont.	407	375	390	325	244	316	225	192
Man.	43	33	30	50	170	40	64	145
Sask.	14	16	19	24	65	19	16	126
Alta.	148	109	92	60	55	82	60	77
B.C.	106	148	166	106	132	123	88	124
Yukon	1	–	1	1	–	1	1	–
N.W.T.	1	–	5	–	4	4	1	3
<b>Canada</b>	<b>884</b>	<b>786</b>	<b>845</b>	<b>671</b>	<b>820</b>	<b>668</b>	<b>548</b>	<b>807</b>

		<b>Food and Drugs Act – Restricted Drugs</b>						
<b>Province</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
Nfld.	29	35	50	35	44	34	17	21
P.E.I.	126	42	40	33	16	13	13	13
N.S.	135	89	88	107	127	80	79	108
N.B.	61	72	84	62	88	47	67	67
Que.	299	205	208	216	215	131	182	132
Ont.	839	584	662	619	861	590	673	473
Man.	141	94	105	130	115	99	93	60
Sask.	170	103	147	146	156	121	61	55
Alta.	503	361	361	334	318	309	240	221
B.C.	862	610	482	537	498	374	325	299
Yukon	11	12	15	7	11	8	7	2
N.W.T.	8	8	9	6	5	4	1	5
<b>Canada</b>	<b>3,184</b>	<b>2,215</b>	<b>2,251</b>	<b>2,232</b>	<b>2,454</b>	<b>1,810</b>	<b>1,758</b>	<b>1,456</b>

TABLE H.1 (Concluded)

**NUMBER OF DRUG-RELATED OFFENCES UNDER THE FEDERAL DRUG ACTS, CANADA AND PROVINCES, 1983 TO 1990**

Province	Total Drug-Related Offences							
	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	684	756	962	743	1,030	761	798	822
P.E.I.	337	311	301	218	177	189	187	209
N.S.	1,991	2,002	1,856	1,933	1,843	1,924	2,087	2,252
N.B.	1,433	1,776	1,995	1,616	1,582	1,334	1,846	1,364
Que.	8,261	7,274	7,540	8,875	8,675	8,718	9,609	8,700
Ont.	17,857	19,066	19,803	19,322	22,854	22,929	27,243	23,532
Man.	2,144	2,012	2,425	2,418	3,059	2,713	3,540	2,165
Sask.	2,323	2,605	2,747	2,452	3,115	1,967	1,949	2,146
Alta.	6,695	6,657	7,086	6,328	5,799	6,672	6,587	6,195
B.C.	12,631	11,848	11,860	11,893	13,069	12,737	13,539	12,077
Yukon	195	260	256	176	182	167	219	191
N.W.T.	296	383	374	277	273	246	278	365
<b>Canada</b>	<b>54,847</b>	<b>54,950</b>	<b>57,205</b>	<b>56,251</b>	<b>61,658</b>	<b>60,357</b>	<b>67,882</b>	<b>60,039</b>

Note: Changes in the number of drug offences reported by the police may reflect changes in police enforcement practices rather than any real increase or decrease in drug usage among the population.

Sources: Statistics Canada, Canadian Crime Statistics 1983, 1984, 1985, 1986, 1987, 1988, 1989, and 1990 (Ottawa: Statistics Canada, Catalogue No. 85-205, 1985, 1985, 1986, 1987, 1988, 1989, 1990, and 1991 respectively).

TABLE H.2

**DRUG-RELATED OFFENCES UNDER THE FEDERAL DRUG ACTS,  
RATES PER 100,000 POPULATION, CANADA AND PROVINCES,  
1983 TO 1990**

Narcotic Control Act – Cannabis								
Province	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	109.7	122.5	146.8	115.8	162.8	115.5	126.1	133.7
P.E.I.	158.4	200.6	192.9	135.1	120.2	117.2	112.1	123.6
N.S.	197.0	204.0	187.9	189.9	170.0	175.6	173.4	187.1
N.B.	174.6	216.8	248.6	201.3	185.9	157.9	191.5	150.8
Que.	83.2	67.3	68.8	78.4	70.1	61.0	53.2	54.7
Ont.	162.7	169.5	158.9	154.6	169.1	158.9	164.0	149.1
Man.	169.9	162.7	188.3	154.3	156.2	144.4	146.1	152.5
Sask.	204.1	224.1	242.6	202.0	180.3	160.2	144.1	135.2
Alta.	239.6	246.6	250.0	216.8	194.3	196.4	198.6	185.5
B.C.	374.5	347.3	336.1	315.7	353.5	325.6	308.1	264.7
Yukon	759.8	1,008.7	944.7	659.6	631.1	529.6	720.5	625.5
N.W.T.	508.2	712.6	651.9	494.3	481.6	400.8	477.5	611.8
Canada	176.7	175.8	174.1	163.7	168.1	156.2	155.4	144.0

Narcotic Control Act – Cocaine								
Province	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	0.7	2.1	1.9	2.5	3.9	4.4	7.7	3.1
P.E.I.	1.6	2.4	2.4	1.6	1.6	7.8	14.6	12.3
N.S.	3.0	6.7	6.8	11.8	13.0	21.6	28.9	19.5
N.B.	5.0	5.7	3.8	9.7	13.8	12.0	42.0	17.8
Que.	17.6	23.8	26.5	36.1	43.5	53.2	65.1	51.9
Ont.	13.3	15.9	20.3	26.2	35.4	52.9	78.5	60.9
Man.	5.9	7.0	9.7	14.7	14.5	13.6	15.6	16.1
Sask.	5.7	4.3	8.3	7.1	8.2	7.8	11.4	8.3
Alta.	11.2	11.4	16.6	21.3	18.5	20.4	28.7	28.2
B.C.	18.1	22.8	22.3	36.1	38.2	53.3	95.2	79.3
Yukon	21.8	43.3	76.6	34.0	65.6	83.0	94.5	88.8
N.W.T.	8.2	20.0	25.0	17.2	11.6	32.8	30.0	33.3
Canada	13.2	16.5	19.5	26.5	32.0	43.1	62.6	49.8

Narcotic Control Act – Heroin								
Province	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	0.2	–	1.7	–	–	0.2	0.2	–
P.E.I.	–	–	–	–	–	–	–	–
N.S.	0.1	–	0.3	–	1.7	0.7	0.7	0.1
N.B.	0.1	2.1	0.4	0.1	0.3	–	1.0	1.5
Que.	2.9	2.6	2.9	3.1	2.6	3.4	3.2	2.9
Ont.	4.0	2.0	3.0	3.8	2.9	4.3	4.4	5.3
Man.	0.1	0.5	1.1	0.6	0.1	0.5	0.3	0.1
Sask.	0.3	0.6	0.5	0.3	0.5	0.2	0.4	0.8
Alta.	1.5	1.2	0.8	0.8	0.3	0.4	1.2	0.8
B.C.	12.6	8.0	10.9	11.6	10.0	9.5	8.7	12.8
Yukon	–	4.3	–	–	–	–	3.9	–
N.W.T.	–	4.0	5.8	–	1.9	–	–	–
Canada	3.8	2.5	3.3	3.6	3.0	3.6	3.7	4.3



TABLE H.2 (Continued)

**DRUG-RELATED OFFENCES UNDER THE FEDERAL DRUG ACTS,  
RATES PER 100,000 POPULATION, CANADA AND PROVINCES,  
1983 TO 1990**

Narcotic Control Act – Other Drugs								
Province	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	3.5	1.2	7.9	5.8	6.3	7.9	3.0	1.6
P.E.I.	4.0	8.8	7.9	6.3	3.9	9.3	6.9	11.5
N.S.	14.4	9.9	7.3	5.4	4.9	9.4	20.7	25.1
N.B.	11.5	13.7	13.1	5.8	8.0	8.5	11.8	6.8
Que.	17.6	14.0	12.8	13.8	10.9	11.0	18.5	16.8
Ont.	8.7	16.0	26.0	17.1	27.3	17.3	28.4	19.7
Man.	11.6	8.4	16.2	39.3	86.4	78.9	150.1	11.2
Sask.	6.2	19.5	4.6	16.5	96.4	12.5	30.0	52.2
Alta.	6.2	5.3	15.1	10.9	14.8	44.4	30.3	24.3
B.C.	9.2	11.4	21.3	26.0	23.4	21.8	17.6	15.3
Yukon	17.5	17.3	–	21.3	4.1	11.9	11.8	15.4
N.W.T.	71.7	12.0	9.6	7.7	15.5	25.0	9.4	14.8
Canada	11.1	13.1	18.2	16.5	24.8	20.3	28.4	19.2

Food and Drugs Act – Controlled Drugs								
Province	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	0.5	0.2	1.2	0.5	0.5	–	–	1.4
P.E.I.	6.5	3.2	4.0	3.2	0.8	2.3	–	3.1
N.S.	2.1	0.7	0.6	2.1	5.7	1.4	2.7	8.6
N.B.	3.8	2.4	3.2	1.8	1.8	1.7	1.3	2.2
Que.	1.7	1.2	1.6	1.0	1.3	0.8	0.9	0.5
Ont.	4.6	4.2	4.3	3.6	2.6	3.4	2.4	2.0
Man.	4.1	3.1	2.8	4.7	15.8	3.7	5.9	13.3
Sask.	1.4	1.6	1.9	2.4	6.4	1.9	1.6	12.6
Alta.	6.3	4.7	3.9	2.5	2.3	3.4	2.5	3.1
B.C.	3.8	5.2	5.8	3.7	4.5	4.1	2.9	4.0
Yukon	4.4	–	4.3	4.3	–	4.0	3.9	–
N.W.T.	2.0	–	9.6	–	7.7	7.7	1.9	5.5
Canada	3.6	3.1	3.4	2.6	3.2	2.6	2.1	3.0

Food and Drugs Act – Restricted Drugs								
Province	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	5.1	6.1	8.7	6.2	7.7	6.0	3.0	3.7
P.E.I.	101.9	33.6	31.7	26.1	12.6	10.1	10.0	10.0
N.S.	15.8	10.3	10.1	12.3	14.4	9.1	8.9	12.1
N.B.	8.7	10.2	11.8	8.7	12.4	6.6	9.3	9.3
Que.	4.6	3.2	3.2	3.3	3.3	2.0	2.7	2.0
Ont.	9.5	6.6	7.4	6.8	9.3	6.3	7.0	4.9
Man.	13.5	8.9	9.9	12.1	10.7	9.1	8.6	5.5
Sask.	17.2	10.3	14.6	14.5	15.4	12.0	6.1	5.5
Alta.	21.5	15.4	15.4	14.1	13.4	12.9	9.9	8.9
B.C.	30.6	21.4	16.8	18.6	17.0	12.5	10.6	9.5
Yukon	48.0	51.9	63.8	29.8	45.1	31.6	27.6	7.7
N.W.T.	16.4	16.0	17.3	11.5	9.7	7.7	1.9	9.2
Canada	12.8	8.9	8.9	8.8	9.6	7.0	6.7	5.5



TABLE H.2 (Concluded)

**DRUG-RELATED OFFENCES UNDER THE FEDERAL DRUG ACTS,  
RATES PER 100,000 POPULATION, CANADA AND PROVINCES,  
1983 TO 1990**

Province	Total Drug-Related Offences							
	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	119.7	132.1	168.3	130.7	181.3	133.9	140.0	143.5
P.E.I.	272.4	248.6	238.9	172.2	139.0	146.7	143.6	160.4
N.S.	232.3	231.6	213.1	221.4	209.7	217.7	235.3	252.6
N.B.	203.8	250.9	281.0	227.5	222.1	186.7	256.9	188.4
Que.	127.6	112.0	115.7	135.7	131.6	131.3	143.7	128.7
Ont.	203.0	214.2	219.9	212.0	246.5	243.1	284.7	241.8
Man.	205.0	190.7	227.9	225.7	283.5	250.1	326.5	198.6
Sask.	234.8	260.4	272.4	242.7	307.2	194.5	193.5	214.5
Alta.	286.3	284.7	301.7	266.4	243.6	277.9	271.2	250.8
B.C.	448.9	416.1	413.2	411.7	446.7	426.8	443.1	385.6
Yukon	851.5	1,125.5	1,089.4	748.9	745.9	660.1	862.2	737.5
N.W.T.	606.6	764.5	719.2	530.7	528.0	474.0	520.6	674.7
Canada	221.3	220.0	227.3	221.9	240.6	232.8	258.9	225.8

Note: Changes in the number of drug offences reported by the police may reflect changes in police enforcement practices rather than any real increase or decrease in drug usage among the population.

Sources: Statistics Canada, *Canadian Crime Statistics 1983, 1984, 1985, 1986, 1987, 1988, 1989, and 1990* (Ottawa: Statistics Canada, Catalogue No. 85-205, 1985, 1985, 1986, 1987, 1988, 1989, 1990, and 1991 respectively).

TABLE H.3

**JUVENILE OFFENDERS<sup>1</sup> INVOLVED IN DRUG-RELATED  
OFFENCES UNDER THE FEDERAL DRUG ACTS,  
CANADA AND PROVINCES, 1986 TO 1990**

<b>Narcotic Control Act – Cannabis</b>					
<b>Province</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
Nfld.	56	64	76	62	69
P.E.I.	10	6	16	14	6
N.S.	130	86	76	74	58
N.B.	102	88	65	65	65
Que.	421	306	371	355	440
Ont.	1,591	1,173	1,216	1,323	1,175
Man.	202	175	163	195	140
Sask.	168	171	123	93	74
Alta.	399	319	358	383	356
B.C.	1,050	1,250	1,099	904	778
Yukon	24	12	14	5	7
N.W.T.	26	8	10	16	21
<b>Canada</b>	<b>4,179</b>	<b>3,658</b>	<b>3,587</b>	<b>3,489</b>	<b>3,189</b>

<b>Narcotic Control Act – Cocaine</b>					
<b>Province</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
Nfld.	—	—	—	—	—
P.E.I.	—	—	—	1	—
N.S.	3	1	3	1	1
N.B.	—	1	2	2	—
Que.	39	46	88	104	78
Ont.	32	35	65	128	119
Man.	—	2	1	1	2
Sask.	1	3	1	—	3
Alta.	2	—	5	13	16
B.C.	16	13	21	37	39
Yukon	—	—	1	—	—
N.W.T.	—	—	—	—	—
<b>Canada</b>	<b>93</b>	<b>101</b>	<b>187</b>	<b>287</b>	<b>258</b>

<b>Narcotic Control Act – Heroin</b>					
<b>Province</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
Nfld.	—	—	—	—	—
P.E.I.	—	—	—	—	—
N.S.	—	1	—	—	—
N.B.	—	—	—	—	—
Que.	—	6	5	3	3
Ont.	4	2	8	2	3
Man.	—	—	—	—	—
Sask.	—	—	—	—	—
Alta.	—	—	—	—	—
B.C.	5	2	3	—	3
Yukon	—	—	—	2	—
N.W.T.	—	—	—	—	—
<b>Canada</b>	<b>9</b>	<b>11</b>	<b>16</b>	<b>7</b>	<b>9</b>

TABLE H.3 (Continued)

**JUVENILE OFFENDERS<sup>1</sup> INVOLVED IN DRUG-RELATED OFFENCES UNDER THE FEDERAL DRUG ACTS, CANADA AND PROVINCES, 1986 TO 1990**

<b>Narcotic Control Act – Other Drugs</b>					
<b>Province</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
Nfld.	3	–	–	3	2
P.E.I.	–	–	–	–	3
N.S.	1	1	5	3	6
N.B.	–	1	2	1	1
Que.	86	48	60	109	152
Ont.	114	30	26	153	21
Man.	2	4	3	4	3
Sask.	2	11	12	5	4
Alta.	5	4	3	2	2
B.C.	11	7	13	2	11
Yukon	–	1	–	–	–
N.W.T.	–	–	–	–	–
<b>Canada</b>	<b>224</b>	<b>107</b>	<b>124</b>	<b>282</b>	<b>205</b>

<b>Food and Drugs Act – Controlled Drugs</b>					
<b>Province</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
Nfld.	–	–	–	–	–
P.E.I.	–	–	–	–	–
N.S.	–	–	2	–	2
N.B.	–	1	–	–	–
Que.	–	–	2	–	3
Ont.	11	7	3	12	3
Man.	–	1	–	–	–
Sask.	–	2	–	–	–
Alta.	1	–	1	–	2
B.C.	–	1	1	1	1
Yukon	–	–	1	–	–
N.W.T.	–	–	–	–	–
<b>Canada</b>	<b>12</b>	<b>12</b>	<b>10</b>	<b>13</b>	<b>11</b>

<b>Food and Drugs Act – Restricted Drugs</b>					
<b>Province</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
Nfld.	4	–	4	–	5
P.E.I.	1	1	2	–	3
N.S.	5	6	10	4	5
N.B.	3	8	3	4	2
Que.	34	18	13	24	10
Ont.	84	85	53	59	62
Man.	15	9	14	11	13
Sask.	16	7	8	2	3
Alta.	20	19	20	31	20
B.C.	67	74	60	39	56
Yukon	–	1	1	1	–
N.W.T.	1	–	–	–	–
<b>Canada</b>	<b>250</b>	<b>228</b>	<b>188</b>	<b>175</b>	<b>179</b>

TABLE H.3 (Concluded)

**JUVENILE OFFENDERS<sup>1</sup> INVOLVED IN DRUG-RELATED OFFENCES UNDER THE FEDERAL DRUG ACTS, CANADA AND PROVINCES, 1986 TO 1990**

Province	Total				
	1986	1987	1988	1989	1990
Nfld.	63	64	80	65	76
P.E.I.	11	7	18	15	12
N.S.	139	95	96	82	72
N.B.	105	99	72	72	68
Que.	580	424	539	595	686
Ont.	1,836	1,332	1,371	1,677	1,383
Man.	219	191	181	211	158
Sask.	187	194	144	100	84
Alta.	427	342	387	429	396
B.C.	1,149	1,347	1,197	983	888
Yukon	24	14	17	8	7
N.W.T.	27	8	10	16	21
<b>Canada</b>	<b>4,767</b>	<b>4,117</b>	<b>4,112</b>	<b>4,253</b>	<b>3,851</b>

<sup>1</sup> Includes both "juveniles charged" and "juveniles not charged".

Note: Changes in the number of drug offences reported by the police may reflect changes in police enforcement practices rather than any real increase or decrease in drug usage among the population.

Sources: Statistics Canada, Canadian Crime Statistics 1986, 1987, 1988, 1989, and 1990 (Ottawa: Statistics Canada, Catalogue No. 85-205, 1987, 1988, 1989, 1990, and 1991 respectively).



TABLE H.4

## ADULTS CHARGED WITH DRUG-RELATED OFFENCES UNDER THE FEDERAL DRUG ACTS, BY SEX, CANADA AND PROVINCES, 1987 TO 1990

Province	Narcotic Control Act - Cannabis															
	Male						Female						Total			
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	697	474	525	511	25	18	17	18	722	492	542	529				
P.E.I.	83	69	76	84	3	4	4	5	86	73	80	89				
N.S.	952	893	856	1,068	97	122	95	123	1,049	1,015	951	1,191				
N.B.	597	539	561	529	57	51	49	36	654	590	610	565				
Que.	2,868	2,684	2,533	2,450	304	295	301	252	3,172	2,979	2,834	2,702				
Ont.	9,642	9,864	10,705	10,648	1,165	1,104	1,516	1,396	10,807	10,968	12,221	12,044				
Man.	1,088	979	960	1,131	161	123	154	136	1,249	1,102	1,114	1,267				
Sask.	1,132	959	895	848	141	123	145	151	1,273	1,082	1,040	999				
Alta.	3,582	3,623	3,610	3,480	409	428	462	477	3,991	4,051	4,072	3,957				
B.C.	5,025	4,584	4,374	3,712	677	598	650	501	5,702	5,182	5,024	4,213				
Yukon	57	82	75	89	5	12	25	11	62	94	100	100				
N.W.T.	143	106	129	155	20	23	17	29	163	129	146	184				
Canada	25,866	24,856	25,299	24,705	3,064	2,901	3,435	3,135	28,930	27,757	28,734	27,840				

Province	Narcotic Control Act - Cocaine															
	Male						Female						Total			
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	10	3	31	7	-	-	-	-	10	3	31	7				
P.E.I.	4	2	8	8	1	-	-	-	5	2	8	8				
N.S.	70	91	104	109	12	14	30	18	82	105	134	127				
N.B.	41	51	103	73	7	6	11	5	48	57	114	78				
Que.	2,145	2,402	3,242	2,674	284	339	591	451	2,429	2,741	3,833	3,125				
Ont.	1,727	2,574	4,008	3,395	326	572	830	622	2,053	3,146	4,838	4,017				
Man.	71	74	103	145	15	19	36	31	86	93	139	176				
Sask.	34	49	82	44	5	3	9	8	39	52	91	52				
Alta.	313	407	558	484	73	49	107	99	386	456	665	583				
B.C.	750	1,066	1,903	1,389	165	218	469	378	915	1,284	2,372	1,767				
Yukon	4	9	10	10	3	1	3	3	7	10	13	13				
N.W.T.	3	7	9	7	-	7	1	2	3	14	10	9				
Canada	5,172	6,735	10,161	8,347	891	1,228	2,087	1,617	6,063	7,963	12,248	9,964				



TABLE H.4 (Continued)

ADULTS CHARGED WITH DRUG-RELATED OFFENCES UNDER THE FEDERAL DRUG ACTS,  
BY SEX, CANADA AND PROVINCES, 1987 TO 1990

Province	Narcotic Control Act - Heroin											
	Male			Female			Total					
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	-	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	3	1	3	1	-	1	-	-	3	2	3	-
N.B.	1	-	5	1	-	-	-	-	1	-	5	2
Que.	115	123	109	135	13	15	19	23	128	138	128	158
Ont.	133	166	215	246	29	37	48	67	162	203	263	313
Man.	1	1	2	-	1	-	-	-	2	1	2	-
Sask.	-	1	1	1	-	-	-	-	-	1	1	2
Alta.	5	11	21	3	1	3	4	2	6	14	25	5
B.C.	131	149	153	182	58	84	53	38	189	233	206	220
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	389	452	509	568	102	140	124	132	491	592	633	700

Province	Narcotic Control Act - Other Drugs											
	Male			Female			Total					
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	4	10	2	-	1	2	-	-	5	12	2	-
P.E.I.	1	4	3	1	2	-	-	-	3	4	3	1
N.S.	24	18	33	30	7	5	13	9	31	23	46	39
N.B.	12	29	15	15	-	-	1	1	12	29	16	16
Que.	363	401	533	538	44	53	68	66	407	454	601	604
Ont.	227	220	297	304	72	49	52	70	299	269	349	374
Man.	61	45	94	29	35	24	46	20	96	69	140	49
Sask.	60	42	49	52	79	52	19	34	139	94	68	86
Alta.	227	138	156	130	111	75	59	73	338	213	215	203
B.C.	342	266	165	95	143	116	61	36	485	382	226	131
Yukon	-	-	1	-	-	-	-	-	-	-	1	-
N.W.T.	1	1	-	1	-	2	-	-	1	3	-	1
Canada	1,322	1,174	1,348	1,200	494	378	319	309	1,816	1,552	1,667	1,509

TABLE H.4 (Continued)

ADULTS CHARGED WITH DRUG-RELATED OFFENCES UNDER THE FEDERAL DRUG ACTS, BY SEX, CANADA AND PROVINCES, 1987 TO 1990

Province	Food and Drugs Act - Controlled Drugs													
	Male					Female					Total			
	1987	1988	1989	1990	1990	1987	1988	1989	1990	1990	1987	1988	1989	1990
Nfld.	-	1	-	-	-	-	-	-	-	-	-	-	-	1
P.E.I.	-	-	-	1	-	-	-	-	-	-	-	-	-	-
N.S.	3	2	2	4	4	1	1	1	1	1	3	3	3	4
N.B.	3	2	4	-	4	1	-	-	-	-	4	2	4	1
Que.	13	7	7	32	7	4	3	1	-	-	17	10	8	32
Ont.	101	84	79	57	57	27	14	17	12	12	128	98	96	69
Man.	17	10	21	13	13	6	1	11	8	8	23	11	32	21
Sask.	19	6	3	5	5	8	7	3	3	3	27	13	6	13
Alta.	25	17	26	24	24	8	11	7	4	4	33	28	33	28
B.C.	36	34	23	15	15	11	5	7	1	1	47	39	30	16
Yukon	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	3	-	-	-	-	-	-	-	-	-	-	-	3
Canada	217	166	165	151	151	65	42	47	34	34	282	208	212	185

Province	Food and Drugs Act - Restricted Drugs													
	Male					Female					Total			
	1987	1988	1989	1990	1990	1987	1988	1989	1990	1990	1987	1988	1989	1990
Nfld.	25	10	10	6	6	-	1	2	1	1	25	11	12	7
P.E.I.	9	5	9	5	5	1	-	1	-	-	10	5	10	5
N.S.	57	39	38	34	34	10	5	5	13	13	67	44	43	47
N.B.	34	24	35	28	28	12	4	5	5	5	46	28	40	33
Que.	107	78	110	70	70	13	11	12	9	9	120	89	122	79
Ont.	501	335	391	295	295	72	41	60	44	44	573	376	451	339
Man.	63	65	59	33	33	3	9	13	5	5	66	74	72	38
Sask.	77	66	36	28	28	20	12	9	10	10	97	78	45	38
Alta.	228	207	146	134	134	30	26	16	24	24	258	233	162	158
B.C.	269	241	180	131	131	40	22	15	8	8	309	263	195	139
Yukon	5	2	3	1	1	-	-	-	-	-	5	2	3	1
N.W.T.	3	1	1	-	-	-	-	-	-	-	3	1	1	1
Canada	1,378	1,073	1,018	765	765	201	131	138	115	115	1,579	1,204	1,156	880

TABLE H.4 (Concluded)

ADULTS CHARGED WITH DRUG-RELATED OFFENCES UNDER THE FEDERAL DRUG ACTS,  
BY SEX, CANADA AND PROVINCES, 1987 TO 1990

Province	Total											
	Male					Female						
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	736	498	568	524	26	21	19	19	762	519	587	543
P.E.I.	97	80	96	99	7	4	5	5	104	84	101	104
N.S.	1,109	1,044	1,036	1,245	126	148	144	163	1,235	1,192	1,180	1,408
N.B.	688	645	723	646	77	61	66	44	765	706	789	690
Que.	5,611	5,695	6,534	5,899	662	716	992	801	6,273	6,411	7,526	6,700
Ont.	12,331	13,243	15,695	14,945	1,691	1,817	2,523	2,211	14,022	15,060	18,218	17,156
Man.	1,301	1,174	1,239	1,351	221	176	260	200	1,522	1,350	1,499	1,551
Sask.	1,322	1,123	1,066	978	253	197	185	212	1,575	1,320	1,251	1,190
Alta.	4,380	4,403	4,517	4,255	632	592	655	679	5,012	4,995	5,172	4,934
B.C.	6,553	6,340	6,798	5,524	1,094	1,043	1,255	962	7,647	7,383	8,053	6,486
Yukon	66	93	89	100	8	13	28	14	74	106	117	114
N.W.T.	150	118	139	163	20	32	18	32	170	150	157	195
<b>Canada</b>	<b>34,344</b>	<b>34,456</b>	<b>38,500</b>	<b>35,736</b>	<b>4,817</b>	<b>4,820</b>	<b>6,150</b>	<b>5,342</b>	<b>39,161</b>	<b>39,276</b>	<b>44,650</b>	<b>41,078</b>

Note: Changes in the number of drug offences reported by the police may reflect changes in police enforcement practices rather than any real increase or decrease in drug usage among the population.

Sources: Statistics Canada, Canadian Crime Statistics 1987, 1988, 1989 and 1990 (Ottawa: Statistics Canada, Catalogue No. 85-205, 1988, 1989, 1990 and 1991 respectively).



TABLE H.5

ADULTS CHARGED WITH DRUG-RELATED OFFENCES UNDER THE FEDERAL DRUG ACTS,  
 BY SEX, RATES PER 100,000 POPULATION AGED 18 AND OVER,  
 CANADA AND PROVINCES, 1987 TO 1990

Province	Narcotic Control Act - Cannabis											
	Male					Female					Total	
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988		1989
Nfld.	362.3	244.1	265.7	254.1	12.7	9.0	8.4	8.7	185.1	124.8	135.2	129.8
P.E.I.	186.1	152.7	164.9	182.2	6.4	8.4	8.3	10.3	94.0	78.6	84.7	94.1
N.S.	301.4	280.3	266.7	329.6	29.0	36.1	27.9	35.7	161.4	154.6	143.7	178.2
N.B.	237.3	212.7	218.8	202.9	21.5	19.1	18.0	13.1	126.6	113.2	115.6	105.5
Que.	119.5	110.7	103.4	98.8	11.8	11.3	11.4	9.5	63.8	59.3	55.8	52.6
Ont.	286.1	286.7	305.2	298.2	32.4	30.2	40.7	36.8	155.2	154.4	169.0	163.6
Man.	283.8	253.4	248.0	290.1	39.7	30.1	37.6	33.0	158.3	138.6	139.8	157.9
Sask.	317.8	270.0	253.0	240.8	38.7	33.8	39.8	41.7	176.8	150.5	144.9	139.8
Alta.	419.9	421.2	415.1	393.4	47.9	49.4	52.4	53.2	233.7	234.7	232.5	222.1
B.C.	466.6	415.8	386.0	319.7	61.0	51.8	54.8	41.2	258.8	229.7	216.7	177.2
Yukon	633.3	872.3	806.5	927.1	60.1	141.2	297.6	126.4	360.5	525.1	565.0	546.4
N.W.T.	856.3	631.0	745.7	875.7	134.2	151.3	106.9	179.0	515.8	403.1	439.8	542.8
Canada	279.0	264.2	264.9	254.7	31.3	29.2	34.1	30.6	151.8	143.5	146.4	139.6

Province	Narcotic Control Act - Cocaine											
	Male					Female					Total	
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988		1989
Nfld.	5.2	1.5	15.7	3.5	-	-	-	-	2.6	0.8	7.7	1.7
P.E.I.	9.0	4.4	17.4	17.4	2.1	-	-	-	5.5	2.2	8.5	8.5
N.S.	22.2	28.6	32.4	33.6	3.6	4.1	8.8	5.2	12.6	16.0	20.2	19.0
N.B.	16.3	20.1	40.2	28.0	2.6	2.2	4.1	1.8	9.3	10.9	21.6	14.6
Que.	89.4	99.1	132.3	107.8	11.0	13.0	22.5	17.0	48.8	54.5	75.5	60.8
Ont.	51.2	74.8	114.3	95.1	9.1	15.6	22.3	16.4	29.5	44.3	66.9	54.6
Man.	18.5	19.2	26.6	37.2	3.7	4.7	8.8	7.5	10.9	11.7	17.4	21.9
Sask.	9.5	13.8	23.2	12.5	1.4	0.8	2.5	2.2	5.4	7.2	12.7	7.3
Alta.	36.7	47.3	64.2	54.7	8.5	5.7	12.1	11.0	22.6	26.4	38.0	32.7
B.C.	69.6	96.7	167.9	119.6	14.7	18.9	39.6	31.1	41.5	56.9	102.3	74.3
Yukon	44.4	95.7	107.5	104.2	36.6	11.8	35.7	34.5	40.7	55.9	73.4	71.0
N.W.T.	18.0	41.7	52.0	39.5	-	46.1	6.3	12.3	9.5	43.8	30.1	26.5
Canada	55.8	71.6	106.4	86.1	9.1	12.4	20.7	15.8	31.8	41.2	62.4	50.0

TABLE H.5 (Continued)

ADULTS CHARGED WITH DRUG-RELATED OFFENCES UNDER THE FEDERAL DRUG ACTS, BY SEX, RATES PER 100,000 POPULATION AGED 18 AND OVER, CANADA AND PROVINCES, 1987 TO 1990

Province	Narcotic Control Act — Heroin											
	Male					Female						
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	-	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	0.9	0.3	0.9	-	-	0.3	-	-	0.5	0.3	0.5	-
N.B.	0.4	-	2.0	0.4	-	-	-	0.4	0.2	-	0.9	0.4
Que.	4.8	5.1	4.4	5.4	0.5	0.6	0.7	0.9	2.6	2.7	2.5	3.1
Ont.	3.9	4.8	6.1	6.9	0.8	1.0	1.3	1.8	2.3	2.9	3.6	4.3
Man.	0.3	0.3	0.5	-	0.2	-	-	-	0.3	0.1	0.3	-
Sask.	-	0.3	0.3	0.3	-	-	-	0.3	-	0.1	0.1	0.3
Alta.	0.6	1.3	2.4	0.3	0.1	0.3	0.5	0.2	0.4	0.8	1.4	0.3
B.C.	12.2	13.5	13.5	15.7	5.2	7.3	4.5	3.1	8.6	10.3	8.9	9.3
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	4.2	4.8	5.3	5.9	1.0	1.4	1.2	1.3	2.6	3.1	3.2	3.5

Province	Narcotic Control Act — Other Drugs											
	Male					Female						
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	2.1	5.1	1.0	-	0.5	1.0	-	-	1.3	3.0	0.5	-
P.E.I.	2.2	8.8	6.5	2.2	4.3	-	-	-	3.3	4.3	3.2	1.1
N.S.	7.6	5.6	10.3	9.3	2.1	1.5	3.8	2.6	4.8	3.5	6.9	5.8
N.B.	4.8	11.4	5.9	5.8	-	-	0.4	0.4	2.3	5.6	3.0	3.0
Que.	15.1	16.5	21.8	21.7	1.7	2.0	2.6	2.5	8.2	9.0	11.8	11.8
Ont.	6.7	6.4	8.5	8.5	2.0	1.3	1.4	1.8	4.3	3.8	4.8	5.1
Man.	15.9	11.6	24.3	7.4	8.6	5.9	11.2	4.8	12.2	8.7	17.6	6.1
Sask.	16.8	11.8	13.8	14.8	21.7	14.3	5.2	9.4	19.3	13.1	9.5	12.0
Alta.	26.6	16.0	17.9	14.7	13.0	8.7	6.7	8.1	19.8	12.3	12.3	11.4
B.C.	31.8	24.1	14.6	8.2	12.7	10.1	5.1	3.0	22.0	16.9	9.7	5.5
Yukon	-	-	10.8	-	-	-	-	-	-	-	-	-
N.W.T.	6.0	6.0	-	5.6	-	13.2	-	-	3.2	9.4	-	2.9
Canada	14.3	12.5	14.1	12.4	5.1	3.8	3.2	3.0	9.5	8.0	8.5	7.6



TABLE H.5 (Continued)

ADULTS CHARGED WITH DRUG-RELATED OFFENCES UNDER THE FEDERAL DRUG ACTS,  
 BY SEX, RATES PER 100,000 POPULATION AGED 18 AND OVER,  
 CANADA AND PROVINCES, 1987 TO 1990

Province	Food and Drugs Act - Controlled Drugs											
	1987	1988	1989	1990	1987	1988	1989	1990	Total			
	Male			Female			Total					
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	-	0.5	-	-	-	-	-	-	-	0.3	-	-
P.E.I.	-	-	-	2.2	-	-	-	-	-	-	-	1.1
N.S.	0.9	0.6	0.6	1.2	-	0.3	0.3	-	0.5	0.5	0.5	0.6
N.B.	1.2	0.8	1.6	-	0.4	-	-	0.4	0.8	0.4	0.8	0.2
Que.	0.5	0.3	0.3	1.3	0.2	0.1	0.0	-	0.3	0.2	0.2	0.6
Ont.	3.0	2.4	2.3	1.6	0.8	0.4	0.5	0.3	1.8	1.4	1.3	0.9
Man.	4.4	2.6	5.4	3.3	1.5	0.2	2.7	1.9	2.9	1.4	4.0	2.6
Sask.	5.3	1.7	0.8	1.4	2.2	1.9	0.8	2.2	3.7	1.8	0.8	1.8
Alta.	2.9	2.0	3.0	2.7	0.9	1.3	0.8	0.4	1.9	1.6	1.9	1.6
B.C.	3.3	3.1	2.0	1.3	1.0	0.4	0.6	0.1	2.1	1.7	1.3	0.7
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	17.9	-	-	-	-	-	-	-	9.4	-	-
Canada	2.3	1.8	1.7	1.6	0.7	0.4	0.5	0.3	1.5	1.1	1.1	0.9

Province	Food and Drugs Act - Restricted Drugs											
	1987	1988	1989	1990	1987	1988	1989	1990	Total			
	Male			Female			Total					
	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989	1990
Nfld.	13.0	5.1	5.1	3.0	-	0.5	1.0	0.5	6.4	2.8	3.0	1.7
P.E.I.	20.2	11.1	19.5	10.8	2.1	-	2.1	-	10.9	5.4	10.6	5.3
N.S.	18.0	12.2	11.8	10.5	3.0	1.5	1.5	3.8	10.3	6.7	6.5	7.0
N.B.	13.5	9.5	13.7	10.7	4.5	1.5	1.8	1.8	8.9	5.4	7.6	6.2
Que.	4.5	3.2	4.5	2.8	0.5	0.4	0.5	0.3	2.4	1.8	2.4	1.5
Ont.	14.9	9.7	11.1	8.3	2.0	1.1	1.6	1.2	8.2	5.3	6.2	4.6
Man.	16.4	16.8	15.2	8.5	0.7	2.2	3.2	1.2	8.4	9.3	9.0	4.7
Sask.	21.6	18.6	10.2	8.0	5.5	3.3	2.5	2.8	13.5	10.8	6.3	5.3
Alta.	26.7	24.1	16.8	15.1	3.5	3.0	1.8	2.7	15.1	13.5	9.2	8.9
B.C.	25.0	21.9	15.9	11.3	3.6	1.9	1.3	0.7	14.0	11.7	8.4	5.8
Yukon	55.6	21.3	32.3	10.4	-	-	-	-	29.1	11.2	16.9	5.5
N.W.T.	18.0	6.0	5.8	-	-	-	-	-	9.5	3.1	3.0	2.9
Canada	14.9	11.4	10.7	7.9	2.1	1.3	1.4	1.1	8.3	6.2	5.9	4.4

TABLE H.5 (Concluded)

ADULTS CHARGED WITH DRUG-RELATED OFFENCES UNDER THE FEDERAL DRUG ACTS,  
BY SEX, RATES PER 100,000 POPULATION AGED 18 AND OVER,  
CANADA AND PROVINCES, 1987 TO 1990

Province	Male			Female			Total			
	1987	1988	1989	1987	1988	1989	1987	1988	1989	1990
Nfld.	382.5	256.4	287.4	13.2	10.5	9.3	195.4	131.6	146.4	133.2
P.E.I.	217.5	177.0	208.2	14.9	8.4	10.4	113.7	90.4	107.0	109.9
N.S.	351.1	327.7	322.7	37.7	43.8	42.2	190.0	181.6	178.2	210.6
N.B.	273.4	254.5	282.0	29.1	22.8	24.3	148.1	135.5	149.5	128.8
Que.	233.8	234.9	266.6	25.7	27.5	37.7	126.1	127.6	148.2	130.3
Ont.	365.9	384.9	447.5	47.1	49.6	67.7	201.4	212.1	251.9	233.0
Man.	339.3	303.8	320.1	54.5	43.1	63.4	192.9	169.8	188.1	193.3
Sask.	371.1	316.2	301.3	69.5	54.1	50.8	218.7	183.6	174.3	166.6
Alta.	513.5	511.9	519.4	74.0	68.4	74.3	293.5	289.4	295.3	277.0
B.C.	608.4	575.1	599.9	97.1	90.4	105.9	347.1	327.2	347.3	272.8
Yukon	733.3	989.4	957.0	97.6	152.9	333.3	430.2	592.2	661.0	623.0
N.W.T.	898.2	702.4	803.5	134.2	210.5	113.2	538.0	468.8	472.9	575.2
<b>Canada</b>	<b>370.5</b>	<b>366.3</b>	<b>403.2</b>	<b>49.2</b>	<b>48.5</b>	<b>61.0</b>	<b>205.6</b>	<b>203.1</b>	<b>227.4</b>	<b>206.0</b>

Note: Changes in the number of drug offences reported by the police may reflect changes in police enforcement practices rather than any real increase or decrease in drug usage among the population.

Sources: Statistics Canada, Canadian Crime Statistics 1987, 1988, 1989 and 1990 (Ottawa: Statistics Canada, Catalogue No. 85-205, 1988, 1989, 1990 and 1991 respectively).

TABLE H.6

## DRUG-RELATED CONVICTIONS UNDER THE FEDERAL DRUG ACTS, CANADA AND PROVINCES, 1983 TO 1989

Province	Narcotic Control Act						
	1983	1984	1985	1986	1987	1988	1989
Nfld.	21	12	43	17	9	42	89
P.E.I.	2	2	1	—	4	2	7
N.S.	41	48	45	51	80	68	90
N.B.	16	34	33	30	41	58	59
Que.	1,312	1,554	1,851	2,153	2,352	3,285	3,203
Ont.	730	950	1,568	1,557	2,254	2,531	2,658
Man.	61	98	240	324	189	227	219
Sask.	38	90	59	54	74	178	115
Alta.	242	303	386	456	500	552	619
B.C.	402	576	674	819	936	1,029	1,430
Yukon	4	2	6	10	4	6	10
N.W.T.	4	4	10	5	1	7	8
<b>Canada</b>	<b>2,873</b>	<b>3,673</b>	<b>4,916</b>	<b>5,476</b>	<b>6,444</b>	<b>7,985</b>	<b>8,507</b>

Province	Food and Drugs Act – Controlled Drugs						
	1983	1984	1985	1986	1987	1988	1989
Nfld.	3	—	—	—	—	—	—
P.E.I.	—	1	—	—	—	—	—
N.S.	2	2	—	1	—	1	—
N.B.	2	1	1	1	2	—	1
Que.	83	15	8	19	14	6	2
Ont.	70	63	63	106	86	56	11
Man.	7	3	5	9	31	31	14
Sask.	2	3	2	—	3	30	53
Alta.	25	26	26	36	34	71	53
B.C.	14	33	31	30	26	34	22
Yukon	—	—	—	—	—	—	—
N.W.T.	—	—	—	—	—	1	—
<b>Canada</b>	<b>208</b>	<b>147</b>	<b>136</b>	<b>202</b>	<b>196</b>	<b>230</b>	<b>156</b>

Province	Food and Drugs Act – Restricted Drugs						
	1983	1984	1985	1986	1987	1988	1989
Nfld.	30	32	30	24	29	25	14
P.E.I.	47	32	12	26	7	4	6
N.S.	86	60	55	57	70	49	40
N.B.	38	36	36	39	41	29	17
Que.	406	354	263	264	266	255	193
Ont.	603	505	435	389	513	401	316
Man.	133	122	90	92	86	93	78
Sask.	118	79	92	99	86	77	46
Alta.	326	345	265	290	280	229	177
B.C.	415	457	335	317	302	299	187
Yukon	11	10	8	6	9	7	3
N.W.T.	7	6	6	8	2	1	2
<b>Canada</b>	<b>2,220</b>	<b>2,038</b>	<b>1,627</b>	<b>1,611</b>	<b>1,691</b>	<b>1,469</b>	<b>1,079</b>

TABLE H.6 (Concluded)

## DRUG-RELATED CONVICTIONS UNDER THE FEDERAL DRUG ACTS, CANADA AND PROVINCES, 1983 TO 1989

Province	Total Convictions						
	1983	1984	1985	1986	1987	1988	1989
Nfld.	54	44	73	41	38	67	103
P.E.I.	49	35	13	26	11	6	13
N.S.	129	110	100	109	150	118	130
N.B.	56	71	70	70	84	87	77
Que.	1,801	1,923	2,122	2,436	2,632	3,546	3,398
Ont.	1,403	1,518	2,066	2,052	2,853	2,988	2,985
Man.	201	223	335	425	306	351	311
Sask.	158	172	153	153	163	285	214
Alta.	593	674	677	782	814	852	849
B.C.	831	1,066	1,040	1,166	1,264	1,362	1,639
Yukon	15	12	14	16	13	13	13
N.W.T.	11	10	16	13	3	9	10
<b>Canada</b>	<b>5,301</b>	<b>5,858</b>	<b>6,679</b>	<b>7,289</b>	<b>8,331</b>	<b>9,684</b>	<b>9,742</b>

Note: Drug-related convictions involving cannabis are not included in this table.

Sources: Health and Welfare Canada, Bureau of Dangerous Drugs, Health Protection Branch, Narcotic, Controlled and Restricted Drug Statistics 1987, 1988, and Tables Report, 1989 (Ottawa: Health and Welfare Canada, undated).



TABLE H.7

**DRUG-RELATED CONVICTIONS UNDER THE FEDERAL DRUG ACTS, RATES PER 100,000 POPULATION, CANADA AND PROVINCES, 1983 TO 1989**

Province	Narcotic Control Act						
	1983	1984	1985	1986	1987	1988	1989
Nfld.	3.7	2.1	7.5	3.0	1.6	7.4	15.6
P.E.I.	1.6	1.6	0.8	—	3.1	1.6	5.4
N.S.	4.8	5.6	5.2	5.8	9.1	7.7	10.1
N.B.	2.3	4.8	4.6	4.2	5.8	8.1	8.2
Que.	20.3	23.9	28.4	32.9	35.7	49.5	47.9
Ont.	8.3	10.7	17.4	17.1	24.3	26.8	27.8
Man.	5.8	9.3	22.6	30.2	17.5	20.9	20.2
Sask.	3.8	9.0	5.9	5.3	7.3	17.6	11.4
Alta.	10.3	13.0	16.4	19.2	21.0	23.0	25.5
B.C.	14.3	20.2	23.5	28.3	32.0	34.5	46.8
Yukon	17.5	8.7	25.5	42.6	16.4	23.7	39.4
N.W.T.	8.2	8.0	19.3	9.6	1.9	13.5	15.0
Canada	11.6	14.7	19.5	21.6	25.1	30.8	32.4

Province	Food and Drugs Act – Controlled Drugs						
	1983	1984	1985	1986	1987	1988	1989
Nfld.	0.5	—	—	—	—	—	—
P.E.I.	—	0.8	—	—	—	—	—
N.S.	0.2	0.2	—	0.1	—	0.1	—
N.B.	0.3	0.1	0.1	0.1	0.3	—	0.1
Que.	1.3	0.2	0.1	0.3	0.2	0.1	..
Ont.	0.8	0.7	0.7	1.2	0.9	0.6	0.1
Man.	0.7	0.3	0.5	0.8	2.9	2.9	1.3
Sask.	0.2	0.3	0.2	—	0.3	3.0	5.3
Alta.	1.1	1.1	1.1	1.5	1.4	3.0	2.2
B.C.	0.5	1.2	1.1	1.0	0.9	1.1	0.7
Yukon	—	—	—	—	—	—	—
N.W.T.	—	—	—	—	—	1.9	—
Canada	0.8	0.6	0.5	0.8	0.8	0.9	0.6

Province	Food and Drugs Act – Restricted Drugs						
	1983	1984	1985	1986	1987	1988	1989
Nfld.	5.3	5.6	5.2	4.2	5.1	4.4	2.5
P.E.I.	38.0	25.6	9.5	20.5	5.5	3.1	4.6
N.S.	10.0	6.9	6.3	6.5	8.0	5.5	4.5
N.B.	5.4	5.1	5.1	5.5	5.8	4.1	2.4
Que.	6.3	5.5	4.0	4.0	4.0	3.8	2.9
Ont.	6.9	5.7	4.8	4.3	5.5	4.3	3.3
Man.	12.7	11.6	8.5	8.6	8.0	8.6	7.2
Sask.	11.9	7.9	9.1	9.8	8.5	7.6	4.6
Alta.	13.9	14.8	11.3	12.2	11.8	9.5	7.3
B.C.	14.7	16.0	11.7	11.0	10.3	10.0	6.1
Yukon	48.0	43.3	34.0	25.5	36.9	27.7	11.8
N.W.T.	14.3	12.0	11.6	15.3	3.9	1.9	3.7
Canada	9.0	8.2	6.5	6.4	6.6	5.7	4.1



TABLE H.7 (Concluded)

**DRUG-RELATED CONVICTIONS UNDER THE FEDERAL DRUG ACTS, RATES PER 100,000 POPULATION, CANADA AND PROVINCES, 1983 TO 1989**

Province	Total Convictions						
	1983	1984	1985	1986	1987	1988	1989
Nfld.	9.5	7.7	12.8	7.2	6.7	11.8	18.1
P.E.I.	39.6	28.0	10.3	20.5	8.6	4.7	10.0
N.S.	15.1	12.7	11.5	12.5	17.1	13.3	14.7
N.B.	8.0	10.0	9.9	9.9	11.8	12.2	10.7
Que.	27.8	29.6	32.6	37.2	39.9	53.4	50.8
Ont.	15.9	17.1	22.9	22.5	30.8	31.7	31.2
Man.	19.2	21.1	31.5	39.7	28.4	32.4	28.7
Sask.	16.0	17.2	15.2	15.1	16.1	28.2	21.3
Alta.	25.4	28.8	28.8	32.9	34.2	35.5	34.9
B.C.	29.5	37.4	36.2	40.4	43.2	45.6	53.6
Yukon	65.5	51.9	59.6	68.1	53.3	51.4	51.2
N.W.T.	22.5	20.0	30.8	24.9	5.8	17.4	18.7
<b>Canada</b>	<b>21.4</b>	<b>23.5</b>	<b>26.5</b>	<b>28.8</b>	<b>32.5</b>	<b>37.4</b>	<b>37.2</b>

Note: Drug-related convictions involving cannabis are not included in this table.

Sources: Health and Welfare Canada, Bureau of Dangerous Drugs, Health Protection Branch, Narcotic, Controlled and Restricted Drug Statistics 1987, 1988, and Tables Report, 1989 (Ottawa: Health and Welfare Canada, undated).

TABLE H.8

## DRUG-RELATED CONVICTIONS UNDER THE FEDERAL DRUG ACTS BY AGE AND SEX, CANADA, 1987 TO 1989

Age	Narcotic Control Act								
	Male			Female			Total		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
Under 15	1	2	5	—	1	—	1	3	5
15 – 19	249	300	332	71	85	72	320	385	404
20 – 24	1,260	1,441	1,745	237	304	260	1,497	1,745	2,005
25 – 29	1,434	1,774	1,993	371	409	311	1,805	2,183	2,304
30 – 39	1,850	2,094	2,330	288	587	325	2,138	2,681	2,655
40 – 49	374	547	669	108	130	133	482	677	802
50 – 59	107	152	111	28	10	16	135	162	127
60 and over	15	21	27	2	16	1	17	37	28
Unknown	27	73	98	22	39	79	49	112	177
<b>Total</b>	<b>5,317</b>	<b>6,404</b>	<b>7,310</b>	<b>1,127</b>	<b>1,581</b>	<b>1,197</b>	<b>6,444</b>	<b>7,985</b>	<b>8,507</b>

Age	Food and Drugs Act – Controlled Drugs								
	Male			Female			Total		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
Under 15	—	—	—	—	—	—	—	—	—
15 – 19	—	2	—	1	3	2	1	5	2
20 – 24	10	18	10	9	11	2	19	29	12
25 – 29	32	20	16	16	9	12	48	29	28
30 – 39	75	76	39	6	31	55	81	107	94
40 – 49	15	12	8	9	5	5	24	17	13
50 – 59	8	18	5	14	1	—	22	19	5
60 and over	1	9	1	—	8	—	1	17	1
Unknown	—	4	1	—	3	—	—	7	1
<b>Total</b>	<b>141</b>	<b>159</b>	<b>80</b>	<b>55</b>	<b>71</b>	<b>76</b>	<b>196</b>	<b>230</b>	<b>156</b>

Age	Food and Drugs Act – Restricted Drugs								
	Male			Female			Total		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
Under 15	3	1	6	1	1	3	4	2	9
15 – 19	340	316	260	45	40	21	385	356	281
20 – 24	601	474	327	42	61	24	643	535	351
25 – 29	326	270	233	45	27	22	371	297	255
30 – 39	215	200	127	16	26	10	231	226	137
40 – 49	30	30	20	1	6	4	31	36	24
50 – 59	8	1	7	—	—	—	8	1	7
60 and over	5	2	1	—	—	1	5	2	2
Unknown	13	13	11	—	1	2	13	14	13
<b>Total</b>	<b>1,541</b>	<b>1,307</b>	<b>992</b>	<b>150</b>	<b>162</b>	<b>87</b>	<b>1,691</b>	<b>1,469</b>	<b>1,079</b>

TABLE H.8 (Concluded)

**DRUG-RELATED CONVICTIONS UNDER THE FEDERAL DRUG ACTS BY AGE AND SEX, CANADA, 1987 TO 1989**

Age	Total Federal Drug Acts								
	Male			Female			Total		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
Under 15	4	3	11	1	2	3	5	5	14
15 - 19	589	618	592	117	128	95	706	746	687
20 - 24	1,871	1,933	2,082	288	376	286	2,159	2,309	2,368
25 - 29	1,792	2,064	2,242	432	445	345	2,224	2,509	2,587
30 - 39	2,140	2,370	2,496	310	644	390	2,450	3,014	2,886
40 - 49	419	589	697	118	141	142	537	730	839
50 - 59	123	171	123	42	11	16	165	182	139
60 and over	21	32	29	2	24	2	23	56	31
Unknown	40	90	110	22	43	81	62	133	191
<b>Total</b>	<b>6,999</b>	<b>7,870</b>	<b>8,382</b>	<b>1,332</b>	<b>1,814</b>	<b>1,360</b>	<b>8,331</b>	<b>9,684</b>	<b>9,742</b>

Sources: Health and Welfare Canada, Bureau of Dangerous Drugs, Health Protection Branch, Narcotic, Controlled and Restricted Drug Statistics 1987, 1988 and Tables Report, 1989 (Ottawa: Health and Welfare Canada, undated).

TABLE H.9

**DRUG-RELATED CONVICTIONS UNDER THE FEDERAL DRUG ACTS, AGE- AND SEX-SPECIFIC RATES PER 100,000 POPULATION, CANADA, 1987 TO 1989**

Age	Narcotic Control Act								
	Male			Female			Total		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
Under 15	..	0.1	0.2	-	..	-	..	0.1	0.1
15 - 19	25.4	30.8	34.5	7.6	9.2	7.9	16.7	20.3	21.5
20 - 24	114.1	135.1	168.6	21.8	29.1	25.8	68.3	82.6	98.2
25 - 29	121.9	149.7	167.3	31.3	34.3	26.0	76.5	91.8	96.6
30 - 39	86.9	96.5	105.4	13.4	26.7	14.5	49.9	61.4	59.6
40 - 49	24.1	33.7	39.5	7.0	8.0	7.9	15.6	20.9	23.7
50 - 59	8.8	12.5	9.1	2.3	0.8	1.3	5.5	6.6	5.2
60 and over	0.9	1.2	1.5	0.1	0.7	..	0.4	0.9	0.7
Unknown	...	...	...	...	...	...	...	...	...
<b>Total</b>	<b>42.1</b>	<b>50.1</b>	<b>56.6</b>	<b>8.7</b>	<b>12.0</b>	<b>9.0</b>	<b>25.1</b>	<b>30.8</b>	<b>32.4</b>

Age	Food and Drugs Act - Controlled Drugs								
	Male			Female			Total		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
Under 15	-	-	-	-	-	-	-	-	-
15 - 19	-	0.2	-	0.1	0.3	0.2	0.1	0.3	0.1
20 - 24	0.9	1.7	1.0	0.8	1.1	0.2	0.9	1.4	0.6
25 - 29	2.7	1.7	1.3	1.4	0.8	1.0	2.0	1.2	1.2
30 - 39	3.5	3.5	1.8	0.3	1.4	2.5	1.9	2.4	2.1
40 - 49	1.0	0.7	0.5	0.6	0.3	0.3	0.8	0.5	0.4
50 - 59	0.7	1.5	0.4	1.1	0.1	-	0.9	0.8	0.2
60 and over	0.1	0.5	0.1	-	0.4	-	..	0.4	..
Unknown	...	...	...	...	...	...	...	...	...
<b>Total</b>	<b>1.1</b>	<b>1.2</b>	<b>0.6</b>	<b>0.4</b>	<b>0.5</b>	<b>0.6</b>	<b>0.8</b>	<b>0.9</b>	<b>0.6</b>

Age	Food and Drugs Act - Restricted Drugs								
	Male			Female			Total		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
Under 15	0.1	..	0.2	..	..	0.1	0.1	..	0.2
15 - 19	34.7	32.4	27.0	4.8	4.3	2.3	20.1	18.8	15.0
20 - 24	54.4	44.4	31.6	3.9	5.8	2.4	29.3	25.3	17.2
25 - 29	27.7	22.8	19.6	3.8	2.3	1.8	15.7	12.5	10.7
30 - 39	10.1	9.2	5.7	0.7	1.2	0.4	5.4	5.2	3.1
40 - 49	1.9	1.8	1.2	0.1	0.4	0.2	1.0	1.1	0.7
50 - 59	0.7	0.1	0.6	-	-	-	0.3	..	0.3
60 and over	0.3	0.1	0.1	-	-	..	0.1	..	..
Unknown	...	...	...	...	...	...	...	...	...
<b>Total</b>	<b>12.2</b>	<b>10.2</b>	<b>7.7</b>	<b>1.2</b>	<b>1.2</b>	<b>0.7</b>	<b>6.6</b>	<b>5.7</b>	<b>4.1</b>



TABLE H.9 (Concluded)

**DRUG-RELATED CONVICTIONS UNDER THE FEDERAL DRUG ACTS, AGE- AND SEX-SPECIFIC RATES PER 100,000 POPULATION, CANADA, 1987 TO 1989**

Age	Total Federal Drug Acts								
	Male			Female			Total		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
Under 15	0.1	0.1	0.4	..	0.1	0.1	0.1	0.1	0.3
15 - 19	60.1	63.4	61.5	12.6	13.9	10.4	36.9	39.3	36.6
20 - 24	169.4	181.2	201.1	26.5	36.0	28.4	98.5	109.3	116.0
25 - 29	152.4	174.2	188.2	36.5	37.3	28.9	94.2	105.6	108.4
30 - 39	100.5	109.2	112.9	14.4	29.3	17.4	57.2	69.0	64.8
40 - 49	27.0	36.2	41.2	7.7	8.7	8.4	17.4	22.5	24.8
50 - 59	10.1	14.1	10.0	3.4	0.9	1.3	6.8	7.4	5.6
60 and over	1.2	1.8	1.6	0.1	1.1	0.1	0.6	1.4	0.8
Unknown	...	...	...	...	...	...	...	...	...
<b>Total</b>	<b>55.4</b>	<b>61.6</b>	<b>64.9</b>	<b>10.3</b>	<b>13.8</b>	<b>10.2</b>	<b>32.5</b>	<b>37.4</b>	<b>37.2</b>

Sources: Health and Welfare Canada, Bureau of Dangerous Drugs, Health Protection Branch, Narcotic, Controlled and Restricted Drug Statistics 1987, 1988 and Tables Report, 1989 (Ottawa: Health and Welfare Canada, undated).

TABLE H.10

## DRUG-RELATED CONVICTIONS UNDER THE FEDERAL DRUG ACTS BY TYPE OF DRUG, CANADA, 1983 TO 1989

Type of Drug	Narcotic Control Act						
	1983	1984	1985	1986	1987	1988	1989
Cocaine	1,630	2,365	2,793	3,334	4,177	5,823	6,909
Codeine	98	224	587	684	632	759	465
Heroin	303	324	344	325	267	325	308
Hydrocodone	124	95	180	87	54	58	81
Oxycodone	107	81	169	124	310	180	142
Pentazocine	40	111	314	508	575	479	322
Phencyclidine	462	370	367	303	234	253	187
Others	109	103	162	111	195	108	93
<b>Total</b>	<b>2,873</b>	<b>3,673</b>	<b>4,916</b>	<b>5,476</b>	<b>6,444</b>	<b>7,985</b>	<b>8,507</b>

Type of Drug	Food and Drugs Act – Controlled Drugs						
	1983	1984	1985	1986	1987	1988	1989
Amphetamines	24	11	8	12	5	6	1
Barbiturates	29	17	10	56	54	16	8
Methamphetamine	67	66	71	56	48	32	10
Methylphenidate	16	43	38	66	78	168	133
Others	72	10	9	12	11	8	4
<b>Total</b>	<b>208</b>	<b>147</b>	<b>136</b>	<b>202</b>	<b>196</b>	<b>230</b>	<b>156</b>

Type of Drug	Food and Drugs Act – Restricted Drugs						
	1983	1984	1985	1986	1987	1988	1989
L.S.D.	1,460	1,188	920	922	900	759	572
M.D.A.	93	67	71	30	12	8	6
Psilocybin	660	783	632	658	772	698	501
Other	7	–	4	1	7	4	–
<b>Total</b>	<b>2,220</b>	<b>2,038</b>	<b>1,627</b>	<b>1,611</b>	<b>1,691</b>	<b>1,469</b>	<b>1,079</b>

Sources: Health and Welfare Canada, Bureau of Dangerous Drugs, Health Protection Branch, Narcotic, Controlled and Restricted Drug Statistics 1987, 1988 and Tables Report, 1989 (Ottawa: Health and Welfare Canada, undated).

TABLE H.11

**DRUG-RELATED CONVICTIONS UNDER THE FEDERAL DRUG ACTS BY SECTION, CANADA, 1983 TO 1989**

Section	Narcotic Control Act						
	1983	1984	1985	1986	1987	1988	1989
Possession	1,437	1,777	2,221	2,741	3,054	3,828	4,389
Trafficking	558	821	892	886	1,168	1,861	1,977
Possession for the Purpose of Trafficking	605	680	822	899	1,065	1,307	1,438
Importing	40	26	42	37	40	40	50
Multiple Doctoring	233	369	939	913	1,117	949	653
<b>Total</b>	<b>2,873</b>	<b>3,673</b>	<b>4,916</b>	<b>5,476</b>	<b>6,444</b>	<b>7,985</b>	<b>8,507</b>

Section	Food and Drugs Act – Controlled Drugs						
	1983	1984	1985	1986	1987	1988	1989
Multiple Doctoring	64	89	68	76	57	87	55
Trafficking	144	58	68	80	72	68	53
Possession for the Purpose of Trafficking	–	–	–	46	67	75	48
<b>Total</b>	<b>208</b>	<b>147</b>	<b>136</b>	<b>202</b>	<b>196</b>	<b>230</b>	<b>156</b>

Section	Food and Drugs Act – Restricted Drugs						
	1983	1984	1985	1986	1987	1988	1989
Possession	1,331	1,199	1,007	984	1,022	836	612
Trafficking	408	397	271	267	278	314	235
Possession for the Purpose of Trafficking	481	442	349	360	391	319	232
<b>Total</b>	<b>2,220</b>	<b>2,038</b>	<b>1,627</b>	<b>1,611</b>	<b>1,691</b>	<b>1,469</b>	<b>1,079</b>

Note: Does not include convictions involving cannabis

Sources: Health and Welfare Canada, Bureau of Dangerous Drugs, Health Protection Branch, Narcotic, Controlled and Restricted Drug Statistics 1987, 1988 and Tables Report, 1989 (Ottawa: Health and Welfare Canada, undated).

**TABLE H.12**

**SENTENCED ADMISSIONS<sup>1</sup> TO FEDERAL ADULT CORRECTIONAL INSTITUTIONS FOR OFFENCES<sup>2</sup> UNDER THE FEDERAL DRUG ACTS, CANADA, 1984-85 TO 1989-90**

Offence	Number of Sentenced Admissions <sup>3</sup>					
	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
Narcotic Control Act	277	326	337	439	481	598
Food and Drugs Act	40	41	37	40	..	..
<b>Total</b>	<b>316</b>	<b>367</b>	<b>374</b>	<b>479</b>	<b>481</b>	<b>598</b>

Offence	Percentage of Sentenced Admissions Relative to Total Sentenced Admissions					
	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
Narcotic Control Act	7	8	9	11	12	14
Food and Drugs Act	1	1	1	1	..	..
<b>Total</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>12</b>	<b>12</b>	<b>14</b>

<sup>1</sup> Sentenced admissions refer to the number of persons admitted to custody under a warrant of committal handed down by a court judge or magistrate. Also included are persons sentenced on one offence but who are awaiting the completion of court hearings on another charge. The total number of admissions does not necessarily represent an unduplicated count of individuals since a person may be admitted, released and readmitted to custody within the same year.

<sup>2</sup> Includes persons sentenced and admitted to custody whose most serious offence was an offence under the Narcotic Control Act or the Food and Drugs Act.

<sup>3</sup> Data have been estimated on the basis of the reported percentage of sentenced admissions relative to the total number of sentenced admissions.

Sources: Statistics Canada, Adult Correctional Services in Canada 1988-89, 1989-90 (Ottawa: Statistics Canada, Catalogue No. 85-211, 1989).



## SENTENCED ADMISSIONS<sup>1</sup> TO PROVINCIAL ADULT CORRECTIONAL SERVICE FACILITIES FOR DRUG-RELATED OFFENCES, CANADA AND PROVINCES, 1984-85 TO 1989-90

Province	Number of Drug-Related Sentenced Admissions <sup>2</sup>					
	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
Nfld.	73	114	92	157	99	73
P.E.I.	42	36	50	15	15	27
N.S.	330	155	119	116	183	177
N.B. <sup>3</sup>	220	185	108	148	134	123
Que.	1,036 <sup>4</sup>	1,106	1,178	815	897	944
Ont.	2,484	2,390	1,812	2,235	2,644	3,137
Man. <sup>5</sup>	147	213	250	316	307	136
Sask.	150	136	135 <sup>6</sup>	236 <sup>6</sup>	303 <sup>6</sup>	302
Alta. <sup>4</sup>	755	763	769	817	824	1,070
B.C.	727	737 <sup>6</sup>	737 <sup>6</sup>	818 <sup>6</sup>	789 <sup>6</sup>	890
Yukon <sup>4</sup>	15	33	28	16	10	9
N.W.T. <sup>4</sup>	-	17	16	26	10	14
Canada <sup>7</sup>	7,015	5,884	5,293	5,716	6,215	6,902

Province	% of Sentenced Drug-Related Admissions/Total Sentenced Admissions					
	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
Nfld.	3	5	5	8	5	4
P.E.I.	4	4	3	1	1	2
N.S.	8	5	4	4	7	10
N.B. <sup>3</sup>	5	5	3	4	4	4
Que.	6 <sup>4</sup>	6	7	5	5	5
Ont.	5	5	4	5	6	7
Man. <sup>5</sup>	3	4	4	5	6	4
Sask.	2	2	2 <sup>6</sup>	3 <sup>6</sup>	4 <sup>6</sup>	4
Alta. <sup>4</sup>	4	4	4	4	4	5
B.C.	6	7 <sup>6</sup>	7 <sup>6</sup>	8 <sup>6</sup>	8 <sup>6</sup>	9
Yukon <sup>4</sup>	3	6	5	3	2	2
N.W.T. <sup>4</sup>	-	2	2	3	1	2
Canada <sup>7</sup>	5	5	5	5	5	6

<sup>1</sup> Sentenced admissions refer to the number of persons admitted to custody under a warrant of committal handed down by a court judge or magistrate. Also included are persons sentenced on one offence but who are awaiting the completion of court hearings on another charge. The total number of admissions does not necessarily represent an unduplicated count of individuals since a person may be admitted, released and readmitted to custody within the same year.

<sup>2</sup> Data have been estimated on the basis of the reported percentage of sentenced drug-related admissions relative to the total number of sentenced admissions.

<sup>3</sup> Includes only those offenders who were both admitted and released during the calendar year.

<sup>4</sup> Offence data are based on multiple charges which may result in double counting of some inmates.

<sup>5</sup> Excludes sentenced admissions to the Provincial Rename Centre.

<sup>6</sup> Admissions are based on the offence with the longest reported sentence.

<sup>7</sup> Based on data from those provinces which reported in a given year.

Sources: Statistics Canada, Adult Correctional Services in Canada 1988-89, and 1989-90 (Ottawa: Statistics Canada Catalogue No. 85-211, 1989 and 1990 respectively).

TABLE H.14

REPORTED THEFTS AND OTHER LOSSES INVOLVING NARCOTIC AND CONTROLLED DRUGS, CANADA AND PROVINCES, 1983 TO 1989

Reported Thefts and Other Losses by Province							
Province	1983	1984	1985	1986	1987	1988	1989
Nfld.	2	2	7	4	4	2	2
P.E.I.	1	2	—	—	2	1	2
N.S.	14	37	35	25	27	15	12
N.B.	7	15	13	12	11	9	3
Que.	222	213	195	210	216	319	286
Ont.	463	359	345	438	475	495	546
Man.	79	73	74	71	71	38	41
Sask.	126	98	86	67	51	38	38
Alta.	190	133	156	252	128	131	129
B.C.	195	181	116	155	184	116	138
Yukon	—	—	—	—	4	2	1
<b>Canada</b>	<b>1,299</b>	<b>1,113</b>	<b>1,027</b>	<b>1,234</b>	<b>1,173</b>	<b>1,166</b>	<b>1,198</b>

Reported Thefts and Other Losses by Source of Loss							
Source of Loss	1983	1984	1985	1986	1987	1988	1989
Pharmacies	1,023	881	751	853	781	729	747
<u>Practitioners:</u>							
Office	18	41	7	6	1	6	10
Medical Bag	11	3	1	—	3	2	1
Hospitals	177	123	177	248	269	278	284
Licensed Dealers	66	49	70	108	99	138	147
Other	4	16	21	19	20	13	9
<b>Total</b>	<b>1,299</b>	<b>1,113</b>	<b>1,027</b>	<b>1,234</b>	<b>1,173</b>	<b>1,166</b>	<b>1,198</b>

Sources: Health and Welfare Canada, Bureau of Dangerous Drug, Health Protection Branch, Narcotics, Controlled and Restricted Drug Statistics 1987, 1988 and Tables Report, 1989 (Ottawa: Health and Welfare Canada, undated).

TABLE H.15

**REPORTED THEFTS AND OTHER LOSSES INVOLVING NARCOTIC AND CONTROLLED DRUGS BY QUANTITY AND TYPE OF DRUG TAKEN, CANADA, 1984 TO 1989**

Drug	Units	Narcotic Drugs					
		1984	1985	1986	1987	1988	1989
Anileridine	Tablet	13,419	14,829	17,156	22,765	15,335	17,494
	Injection (mL)	481	146	195	592	12	97
Cocaine	Tablet	12	—	—	—	—	—
	Liquid (mL)	148	220	147	172	33	123
	Powder (g)	642	614	565	703	269	357
Codeine	Tablet & Cap.	516,266	442,710	819,418	726,104	572,778	606,545
	Injection (mL)	497	1,540	817	143	96	408
	Liquid (mL)	189,604	130,880	301,331	231,010	195,576	262,077
	Powder (g)	777	522	579	332	287	226
Diphenoxylate	Tablet	73,889	58,802	75,885	119,893	48,031	41,778
	Liquid (mL)	8,184	7,533	11,726	8,597	5,095	4,760
Hydrocodone	Tablet	15,209	13,741	17,736	15,098	14,557	12,895
	Liquid (mL)	1,037,967	2,253,832	1,137,335	909,465	854,634	973,499
Hydromorphone	Tablet	11,679	12,812	33,970	27,381	25,921	42,038
	Injection (mL)	149	613	40	380	432	212
	Suppository	153	54	96	231	85	40
Levorphanol	Tablet	10,673	13,622	11,961	10,305	7,387	8,988
	Injection (mL)	158	350	35	31	—	10
Meperidine	Tablet & Cap.	64,149	45,658	68,841	71,364	57,537	43,052
	Injection (mL)	26,604	12,949	11,253	9,424	8,019	4,850
Methadone	Tablet	490	—	—	100	—	29
	Liquid (mL)	1,650	2,200	5	—	981	180
	Powder (g)	373	186	288	257	81	107
Morphine	Tablet	1,850	2,459	17,587	27,744	45,908	53,913
	Injection (mL)	14,006	16,940	6,260	3,599	2,136	3,713
	Liquid (mL)	55,611	54,799	138,436	84,306	95,272	68,330
	Powder (g)	788	433	555	468	215	202
	Suppository	58	170	690	363	341	85
Nabilone	Cap.	268	278	434	296	164	40

TABLE H.15 (Continued)

**REPORTED THEFTS AND OTHER LOSSES INVOLVING NARCOTIC AND CONTROLLED DRUGS BY QUANTITY AND TYPE OF DRUG TAKEN, CANADA, 1984 TO 1989**

Drug	Units	Narcotic Drugs (Concluded)					
		1984	1985	1986	1987	1988	1989
Normethadone	Tablet	152	130	82	95	—	—
	Liquid (mL)	9,449	3,809	7,165	5,554	3,780	5,349
Opium	Tablet & Cap.	4,583	2,141	4,918	3,265	1,522	3,585
	Injection (mL)	188	235	32	112	10	1
	Liquid (mL)	17,895	9,675	21,466	14,778	9,669	7,500
	Powder (g)	—	480	60	—	—	—
	Suppository	266	260	241	221	164	62
Oxycodone	Tablet	185,110	185,739	302,900	299,711	315,547	305,861
	Liquid (mL)	—	—	—	750	—	—
	Suppository	639	468	720	223	242	958
Pentazocine	Tablet	128,666	78,958	98,118	78,949	61,357	42,696
	Injection (mL)	1,569	2,211	1,924	866	506	468
Propoxyphene	Tablet & Cap.	37,798	44,034	65,636	59,650	43,163	42,195
Others	Tablet	140	—	40	25	100	—
	Injection (mL)	1,118	2,641	11,115	634	1,412	366
	Liquid (mL)	5,552	1,369	11,479	5,402	722	39
	Powder (g)	14	62	15	—	—	—
	Suppository	99	42	140	72	24	6

Drug	Units	Controlled Drugs					
		1984	1985	1986	1987	1988	1989
Amphetamine	Tablet & Cap.	5,286	5,096	9,944	7,306	5,101	5,092
	Powder (g)	4	—	—	—	—	—
Diethylpropion	Tablet	8,818	8,601	11,960	8,735	7,871	15,093
Methaqualone	Tablet & Cap.	18,738	12,701	16,703	8,445	8,301	8,814
Methylphenidate	Tablet	68,130	42,421	137,155	56,629	53,619	56,822
	Injection (mL)	210	—	—	—	18	—
	Liquid (mL)	—	—	100	500	—	—



TABLE H.15 (Concluded)

**REPORTED THEFTS AND OTHER LOSSES INVOLVING NARCOTIC AND CONTROLLED DRUGS BY QUANTITY AND TYPE OF DRUG TAKEN, CANADA, 1984 TO 1989**

Drug	Units	Controlled Drugs (Concluded)					
		1984	1985	1986	1987	1988	1989
Phentermine	Cap.	18,261	21,649	26,602	21,373	13,030	23,374
Secobarbital	Tablet & Cap.	35,736	22,025	42,377	26,110	16,320	16,271
	Injection (mL)	—	4	500	—	—	—
Secobarbital & Amobarbital	Cap.	28,928	22,048	41,566	20,898	15,040	9,959
Other Barbiturates	Tablet & Cap.	223,689	172,368	278,894	239,248	149,645	183,519
	Injection (mL)	1,396	1,354	433	89	181	289
	Liquid (mL)	10,070	10,867	24,321	13,982	45,825	48,431
	Powder (g)	140	158	253	125	43	135
	Suppository	430	120	394	252	132	456
Other Controlled Drugs	Tablet & Cap.	1,481	2,066	786	840	510	—
	Injection (mL)	401	138	37	20	40	133
	Liquid (mL)	645	255	—	200	200	100
	Powder (g)	64	—	39	255	257	123

Sources: Health and Welfare Canada, Bureau of Dangerous Drugs, Drugs Directorate, Health Protection Branch, Narcotics, Controlled and Restricted Drug Statistics 1988 and Tables Report, 1989 (Ottawa: Health and Welfare Canada, undated)



TABLE H.16

### NUMBER OF REPORTED PRESCRIPTION FORGERIES<sup>1</sup> BY PROVINCE AND DRUG, CANADA, 1984 TO 1989

Province	1984	1985	1986	1987	1988	1989
Nfld.	15	10	10	4	5	12
P.E.I.	—	4	—	—	—	—
N.S.	13	7	11	17	17	4
N.B.	1	8	59	14	5	6
Que.	258	299	441	569	319	320
Ont.	569	1,011	786	1,151	1,119	1,281
Man.	104	80	168	108	99	105
Sask.	29	12	99	40	3	14
Alta.	103	68	66	47	91	100
B.C.	214	255	261	232	229	166
Yukon	—	—	—	1	—	—
<b>Canada</b>	<b>1,306</b>	<b>1,754</b>	<b>1,901</b>	<b>2,183</b>	<b>1,887</b>	<b>2,008</b>

Type of Drug	1984	1985	1986	1987	1988	1989
<b><u>Narcotic Drugs:</u></b>						
Anileridine	2	12	11	112	68	23
Codeine	324	499	562	769	529	670
Diphenoxylate	2	1	2	1	1	3
Hydrocodone	227	349	229	108	268	238
Hydromorphone	7	15	70	49	156	72
Meperidine	39	36	41	56	48	96
Methadone	2	—	32	128	—	—
Morphine	1	2	3	6	37	39
Oxycodone	291	326	398	576	427	621
Pentazocine	139	108	111	69	54	35
Propoxyphene	28	25	19	30	12	5
Other	1	2	1	5	2	—
<b><u>Controlled Drugs:</u></b>						
Amphetamine	12	2	2	1	—	—
Diethylpropion	12	72	99	30	25	18
Methaqualone	27	43	38	52	67	66
Methylphenidate	73	140	162	96	99	30
Phentermine	51	33	27	19	46	47
Secobarbital	39	53	77	68	37	22
Secobarbital and Amobarbital	9	6	1	2	7	13
Other Barbiturates	20	30	16	6	4	10
<b>Total</b>	<b>1,306</b>	<b>1,754</b>	<b>1,901</b>	<b>2,183</b>	<b>1,887</b>	<b>2,008</b>

<sup>1</sup> Includes both forgeries that were filled and forgeries that were not filled.

Source: Bureau of Dangerous Drugs, Health Protection Branch, Health and Welfare Canada, Narcotic, Controlled and Restricted Drug Statistics 1988 and Tables Report, 1989. (Ottawa: Health and Welfare Canada, undated).

TABLE H.17

**DRUG SAMPLES IDENTIFIED BY HEALTH PROTECTION BRANCH  
LABORATORIES, CANADA BY REGION, 1985 TO 1989<sup>1</sup>**

Name of Drug	Year	Atlantic	Quebec	Ontario	Man. & Sask.	Alta. & B.C.	Total Canada
<b>Amphetamine</b>	1985	—	14	8	—	3	25
	1986	—	—	7	—	3	10
	1987	—	—	10	—	1	11
	1988	—	—	2	—	1	3
	1989	1	5	6	1	2	15
<b>Anileridine</b>	1985	—	—	4	—	1	5
	1986	—	2	1	—	3	6
	1987	—	—	2	3	4	9
	1988	—	—	1	—	7	8
	1989	—	—	6	—	5	11
<b>Barbiturate</b>	1985	3	20	56	15	34	128
	1986	2	12	83	12	21	130
	1987	—	6	30	12	21	69
	1988	1	6	29	5	17	58
	1989	5	30	54	4	10	103
<b><u>Cannabis:</u></b>							
<b>Cannabis</b>	1985	1,032	986	6,618	2,200	6,878	17,714
	1986	661	765	5,266	1,432	5,130	13,254
	1987	1,099	1,117	9,082	2,004	7,343	20,645
	1988	483	947	7,617	2,123	8,452	19,622
	1989	737	1,403	7,699	1,600	7,801	19,240
<b>Cannabis Resin</b>	1985	1,416	3,889	5,181	535	1,617	12,638
	1986	1,484	4,180	7,172	718	3,519	17,073
	1987	948	4,191	5,344	701	2,601	13,785
	1988	1,323	4,107	6,389	423	1,393	13,635
	1989	1,121	2,909	6,229	701	2,668	13,628
<b>Cannabis Resin Liquid</b>	1985	187	66	2,981	507	1,021	4,762
	1986	159	75	2,027	515	709	3,485
	1987	224	79	2,141	475	803	3,722
	1988	196	72	2,734	459	685	4,146
	1989	408	82	2,000	329	310	3,129
<b>Cannabis Total</b>	1985	2,635	4,941	14,780	3,242	9,516	35,114
	1986	2,304	5,020	14,465	2,665	9,358	33,812
	1987	2,271	5,387	16,567	3,180	10,747	38,152
	1988	2,002	5,126	16,740	3,005	10,530	37,403
	1989	2,266	4,394	15,928	2,630	10,779	35,997

TABLE H.17 (Continued)

**DRUG SAMPLES IDENTIFIED BY HEALTH PROTECTION BRANCH  
LABORATORIES, CANADA BY REGION, 1985 TO 1989<sup>1</sup>**

Name of Drug	Year	Atlantic	Quebec	Ontario	Man. & Sask.	Alta. & B.C.	Total Canada
Cocaine	1985	100	2,752	2,499	294	880	6,525
	1986	163	3,154	3,352	286	1,201	8,156
	1987	232	3,895	4,395	394	1,373	10,289
	1988	301	6,122	6,640	423	1,938	15,424
	1989	495	6,531	9,361	682	3,599	20,668
Codeine	1985	7	22	93	28	99	249
	1986	2	15	87	49	95	248
	1987	4	5	81	50	107	247
	1988	6	5	89	27	109	236
	1989	10	25	98	24	102	259
Diethylpropion	1985	—	7	2	1	1	11
	1986	—	5	6	1	—	12
	1987	—	1	2	—	—	3
	1988	—	—	1	—	2	3
	1989	5	1	2	—	—	8
Heroin	1985	19	263	414	11	200	907
	1986	—	186	317	2	222	727
	1987	12	240	367	1	204	824
	1988	2	379	576	20	260	1,237
	1989	4	260	584	2	232	1,082
Hydrocodone	1985	—	7	17	8	20	52
	1986	—	7	18	—	14	39
	1987	1	—	22	1	10	34
	1988	—	3	8	2	7	20
	1989	—	7	5	1	2	15
Hydromorphone	1985	—	3	3	1	8	15
	1986	2	12	8	2	10	34
	1987	1	1	14	11	23	50
	1988	—	8	11	12	36	67
	1989	—	—	33	10	24	67
L.S.D.	1985	153	298	733	111	272	1,567
	1986	148	249	737	79	288	1,501
	1987	137	247	730	97	235	1,446
	1988	82	170	483	59	175	969
	1989	92	151	475	89	145	952

TABLE H.17 (Continued)

**DRUG SAMPLES IDENTIFIED BY HEALTH PROTECTION BRANCH  
LABORATORIES, CANADA BY REGION, 1985 TO 1989<sup>1</sup>**

Name of Drug	Year	Atlantic	Quebec	Ontario	Man. & Sask.	Alta. & B.C.	Total Canada
M.D.A.	1985	29	—	42	3	115	189
	1986	2	—	8	1	42	53
	1987	—	—	5	1	59	65
	1988	6	—	1	—	17	24
	1989	—	—	1	—	11	12
Methadone	1985	—	5	1	2	13	21
	1986	—	1	2	—	3	6
	1987	—	4	—	1	32	37
	1988	—	3	3	1	12	19
	1989	1	2	1	1	21	26
Methamphetamine	1985	11	4	264	4	8	291
	1986	9	25	314	—	21	369
	1987	2	1	59	—	43	105
	1988	3	26	72	—	32	133
	1989	1	3	26	3	24	57
Methaqualone	1985	4	3	8	—	8	23
	1986	1	12	11	3	8	35
	1987	1	5	6	3	8	23
	1988	1	—	8	—	7	16
	1989	4	3	6	1	7	21
Methylphenidate	1985	1	8	1	18	101	129
	1986	2	4	8	49	205	268
	1987	—	4	5	77	329	415
	1988	1	2	7	104	260	374
	1989	1	4	6	98	190	299
Morphine	1985	—	11	35	11	18	75
	1986	1	18	18	2	33	72
	1987	1	4	27	10	21	63
	1988	1	13	32	6	40	92
	1989	4	8	40	20	73	145
Opium	1985	1	1	3	—	2	7
	1986	—	3	22	—	—	25
	1987	—	5	—	1	—	6
	1988	—	—	3	—	—	3
	1989	—	—	1	—	—	1



TABLE H.17 (Continued)

**DRUG SAMPLES IDENTIFIED BY HEALTH PROTECTION BRANCH  
LABORATORIES, CANADA BY REGION, 1985 TO 1989<sup>1</sup>**

Name of Drug	Year	Atlantic	Quebec	Ontario	Man. & Sask.	Alta. & B.C.	Total Canada
Oxycodone	1985	1	15	54	—	15	85
	1986	1	13	34	4	16	68
	1987	—	13	47	5	23	88
	1988	—	6	71	1	30	108
	1989	4	6	43	1	13	67
Pentazocine	1985	9	7	18	69	439	542
	1986	—	4	24	105	522	655
	1987	7	2	11	162	676	858
	1988	1	1	13	170	529	714
	1989	1	4	15	153	304	477
Pethidine	1985	2	15	22	8	16	63
	1986	—	3	16	6	57	82
	1987	1	1	10	4	15	31
	1988	2	2	20	2	22	48
	1989	—	2	12	3	3	20
Phencyclidine	1985	58	651	105	5	5	824
	1986	25	429	28	11	6	499
	1987	23	429	39	11	5	507
	1988	5	534	36	2	5	582
	1989	9	341	27	—	9	386
Psilocybin	1985	57	104	166	164	351	842
	1986	19	160	210	121	405	915
	1987	12	166	298	162	512	1,150
	1988	28	151	222	138	409	948
	1989	13	155	186	94	340	788
Phentermine	1985	2	7	12	13	3	37
	1986	5	7	6	5	3	26
	1987	4	3	5	5	1	18
	1988	2	2	3	1	1	9
	1989	1	2	1	4	—	8
Others	1985	6	12	20	1	7	46
	1986	1	7	22	1	7	38
	1987	3	8	18	3	7	39
	1988	3	7	31	1	13	55
	1989	—	7	16	—	1	24

TABLE H.17 (Concluded)

**DRUG SAMPLES IDENTIFIED BY HEALTH PROTECTION BRANCH LABORATORIES, CANADA BY REGION, 1985 TO 1989<sup>1</sup>**

Name of Drug	Year	Atlantic	Quebec	Ontario	Man. & Sask.	Alta. & B.C.	Total Canada
<b>Total for all Drugs</b>	1985	3,098	9,170	19,360	4,009	12,135	47,772
	1986	2,687	9,348	19,804	3,404	12,543	47,786
	1987	2,712	10,427	22,750	4,194	14,456	54,539
	1988	2,447	12,566	25,102	3,979	14,459	58,553
	1989	2,917	11,941	26,933	3,821	15,896	61,508

<sup>1</sup> These figures do not represent a random sample of drug use in Canada, but rather correspond to those drugs received for analysis by Health Protection Branch Laboratories, and are intended as a guide to others doing chemical analysis of such substances likely to be encountered in various parts of the country. Not included are specimens presented for analysis, when analysis indicated these were not Narcotics, or Schedules G or H items, such as specimens alleged to be amphetamines but which were in fact aspirin.

Sources: Health and Welfare Canada, Bureau of Dangerous Drugs, Health Protection Branch, Narcotic Controlled and Restricted Drug Statistics – Tables Report, 1989 (Ottawa: Health and Welfare Canada, undated).

TABLE H.18

## TYPE AND AMOUNT OF DRUGS SEIZED IN CANADA, 1985 to 1989

Type of Drug	1985	1986	1987	1988	1989
<b>Heroin<sup>1</sup> (kg)</b>	64.915	48.108	44.891	68.699	43.847
<b>Cocaine<sup>1,2</sup> (kg)</b>	170.082	247.142	282.796	349.747	959.234
<b><u>Cannabis<sup>3</sup>: (kg)</u></b>					
Marihuana	3,765	8,314	26,475	25,164	3,744
Hashish	18,973	17,837	23,968	7,750	2,189
Liquid Hashish	202	100	440	259	261
<b><u>Chemical Drugs<sup>3</sup>:</u></b>					
<b>Prescription Drugs<sup>4</sup> (kg)</b>	88.954	0.091	35.179	0.454	4.201
<b>Controlled Drugs (kg)</b>					
Methamphetamine	8.239	11.474	0.424	6.887	0.171
Amphetamine	0.047	0.034	0.128	0.265	0.025
Barbiturates	0.233	0.191	0.007	0.001	0.048
Other	2.937	0.524	12.117	3.841	0.026
<b>Restricted Drugs</b>					
LSD (single doses)	236,958	469,916	124,320	135,685	68,661
MDA (kg)	3.768	5.292	0.671	0.054	0.034
Other (kg)	319.810	128.713	115.308	51.293	17.485
<b>Narcotic Control Act</b>					
PCP	20.191	7.212	3.212	7.287	0.464

<sup>1</sup> Includes seizures made by the RCMP, Canada Customs, Vancouver City Police, Ontario Provincial Police, Metropolitan Toronto Police, Quebec Police Force and Montreal Urban Community Police.

<sup>2</sup> Seizures of cocaine by Quebec Police Force were not available for the year 1985.

<sup>3</sup> Includes seizures made by the RCMP and Canada Customs.

<sup>4</sup> Includes prescription drugs listed under Schedule F of the Food and Drug Act. Included in this schedule are steroids.

Note: Annual variations may reflect major seizures that occurred during the year and not real changes in supply.

Source: Drug Enforcement Directorate, Royal Canadian Mounted Police, National Drug Intelligence Estimate 1990 (Ottawa: Ministry of Supply and Services Canada, 1991).

**Chapter I** 

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**ALCOHOL-RELATED MORBIDITY IN CANADA**

# Chapter I

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## ALCOHOL-RELATED MORBIDITY IN CANADA

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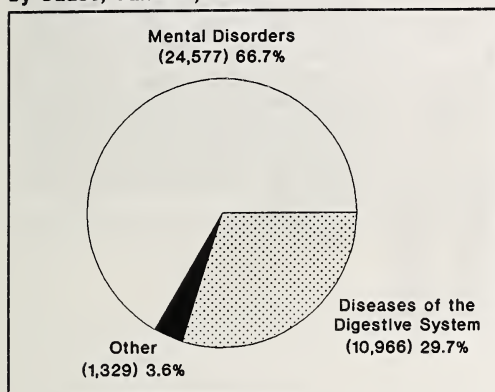
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# I. ALCOHOL-RELATED MORBIDITY IN CANADA

## Highlights

**Figure I.1**  
Alcohol-Related Separations from General Hospitals by Cause, Canada<sup>5</sup>, 1987-88

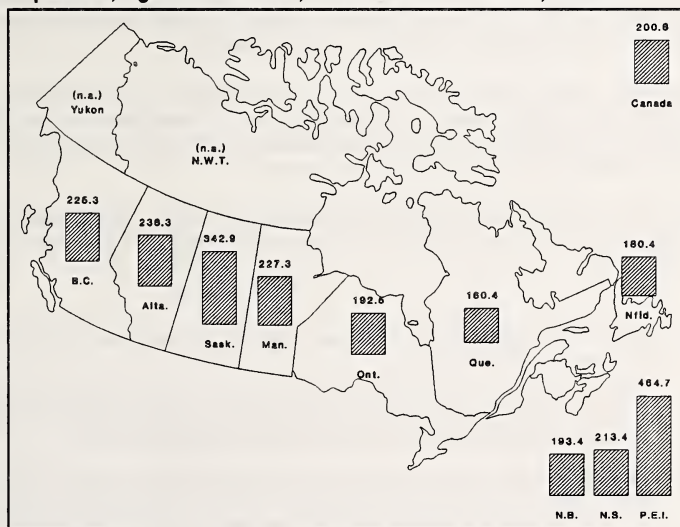


The number of alcoholics<sup>1</sup> in Canada was estimated at 476,800 in 1988 (Table I.1). There were 1,800 alcoholics in Canada per 100,000 population during the year. With 2,100, Ontario had the highest rate, while New Brunswick had the lowest, with 1,200 (Table I.1).

During 1987-88, the total number of separations from Canadian general hospitals for alcohol-related diagnoses reached 36,872. Approximately 66.7% of this total was due to mental disorders<sup>2</sup>, 29.7% due to diseases of the digestive system<sup>3</sup>, and other<sup>4</sup> diagnoses accounting for the rest (Figure I.1, Table I.1). Men typically account for over 70% of all alcohol-related morbidity in Canada. In 1987-88, there were 26,128 male cases separated for alcohol-related problems, as opposed to 10,744 female cases (Table I.2).

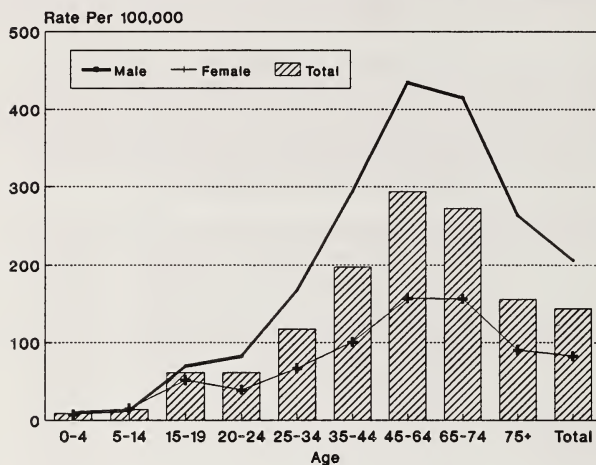
**Figure I.2**  
Alcohol-Related Separations from General Hospitals, Rates Per 100,000 Population, Aged 20 and Over, Canada<sup>5</sup> and Provinces, 1987-88

The rate per 100,000 population, aged 20 and over, dropped 7.2% from the previous year. The decline was attributable to the widespread reduction in rates for most diagnoses. Only cases with alcoholic cardiomyopathy, a disease of the circulatory system, rose in number during the year (Table I.4). Four provinces registered a lower rate than the national average of 200.6: Newfoundland, New Brunswick, Quebec and Ontario (Figure I.2, Table I.4). Only Newfoundland and Nova Scotia recorded an increase in rates during the year (Table I.4).



<sup>1</sup> Estimated using the Jellinek formula with proportion of liver cirrhosis deaths due to alcoholism equal to 0.37 and rate of death from liver cirrhosis among all alcoholics equal to 16.53 per 10,000 (see Technical Notes, Appendix B).

**Figure I.3**  
**Alcohol-Related Separations from General Hospitals, Rates**  
**Per 100,000 Population, by Age and Sex, Canada,<sup>5</sup> 1987-88**



Overall, alcohol morbidity per 100,000 population was also on a decline in 1987-88 (Table I.3). All age groups, with the exception of the youngest and oldest, experienced a reduction in rate (Table I.6). The largest decline occurred in the 20-24 age group. As in the past few years, the rate of alcohol morbidity for both male and female peaked at the age group 45-64 (Figure I.3, Table I.6). The next highest risk group consisted of those aged 65-74.

## Explanatory Notes

The statistics reported are derived from admission/discharge forms, which are completed by the medical records department of general hospitals, for each person. These forms record one continuous stay in hospital for each patient. A separation is defined as the discharge or death of an inpatient. Separations are grouped according to the province of hospitalization.

The data on separations are counts of cases and not patients, as an individual is counted on each occasion that they stay in the hospital. Only inpatient data on cases treated in general hospitals, including those treated in psychiatric units of general and allied special hospitals, are included. Excluded are cases treated as out-patients or as patients in mental hospitals.

The data are based upon the 9th Revision of the International Classification of Diseases (ICD-9) which was put into effect in Canada in 1979. For medical conditions included under each diagnostic category see Appendix B.

<sup>2</sup> Includes 5,283 cases of alcoholic psychoses, 16,183 cases of alcohol dependence syndrome and 3,111 cases of nondependent abuse of alcohol.

<sup>3</sup> Includes 2,183 cases of alcoholic gastritis, 5,372 cases of alcohol-related chronic liver disease and cirrhosis, 1,413 cases of *specified* chronic liver disease and cirrhosis without mention of alcohol, 1,854 cases of *unspecified* chronic liver disease and cirrhosis without mention of alcohol, and 144 cases of portal hypertension.

<sup>4</sup> Includes 70 cases of alcoholic polyneuropathy, 244 cases of alcoholic cardiomyopathy, 979 cases of toxic effects of alcohol, 2 cases of excessive blood level of alcohol, 3 cases of alcoholic pellagra, 11 cases of suspected damage to the fetus from maternal alcohol addiction and 20 cases of noxious influences transmitted via placenta or breast milk.

<sup>5</sup> Excludes newborns, Yukon and Northwest Territories. Includes alcoholic psychoses; alcohol dependence syndrome; nondependent abuse of alcohol; alcoholic cardiomyopathy; chronic liver disease and cirrhosis; toxic effects of alcohol; excess blood level of alcohol; alcoholic pellagra; suspected damage to the fetus from maternal alcohol addiction; listeriosis and toxoplasmosis; and noxious influences transmitted via placenta or breast milk.

## **References**

For 1973 to 1981, Statistics Canada, Causes of Death: Provinces by Sex and Canada by Sex and Age, annual issues (Ottawa: Statistics Canada, Catalogue No. 84-203, from 1974 to 1982)

For 1982 to 1986, Statistics Canada, Causes of Death - Vital Statistics Volume IV, 1982, 1983, 1984, 1985, 1986 (Ottawa: Statistics Canada, Catalogue No. 84-203, 1984, 1985, 1986, 1987, and 1988 respectively)

Statistics Canada, Health Reports Supplement, Volume 1, No. 1, 1989 - Causes of Death, 1987 (Ottawa: Statistics Canada, catalogue No. 82-003S, 1989)

Statistics Canada, Health reports, Supplement No. 11, 1990, Volume 2, No. 1 - Causes of Death, 1988 (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1990)

Statistics Canada, Health Reports Supplement No. 11, 1991, Volume 3, No. 1 - Causes of Death, 1989 (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1991).

Additional data were obtained from the Canadian Centre for Health Information, Statistics Canada.

TABLE I.1

## ESTIMATED PREVALENCE OF ALCOHOLISM, CANADA AND PROVINCES, 1974 TO 1988

Year	Number of Alcoholics <sup>1</sup>										Canada <sup>2,3</sup>
	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	
1974	4,100	1,700	13,900	11,100	165,400	226,800	24,000	16,100	33,600	88,000	584,800
1975	3,200	1,800	14,200	11,100	172,700	230,300	24,500	17,900	37,300	93,700	606,700
1976	3,900	1,700	14,100	12,300	176,700	235,900	23,100	17,500	41,300	91,900	618,400
1977	5,900	1,500	13,500	13,400	176,100	235,100	22,300	17,100	43,900	94,200	622,900
1978	6,600	1,500	13,400	13,500	168,900	228,600	24,000	16,800	46,200	100,200	619,700
1979	6,100	1,800	13,700	12,800	155,200	222,400	24,900	16,400	49,000	103,000	605,300
1980	6,000	1,700	12,700	11,900	150,900	221,000	24,400	17,200	51,400	104,400	601,600
1981	5,300	1,600	11,800	11,400	148,700	218,500	24,900	16,900	52,300	98,700	589,900
1982	5,000	1,400	12,600	10,700	137,500	206,700	24,500	17,200	50,800	85,300	551,600
1983	5,200	1,100	13,400	10,200	130,900	197,700	22,600	19,600	48,600	71,400	520,500
1984	4,700	1,100	12,800	9,900	130,900	194,700	21,600	20,300	44,300	62,400	502,800
1985	5,800	1,800	12,300	9,500	129,300	193,600	21,900	19,200	38,400	62,700	493,600
1986	5,800	2,400	12,000	10,100	128,000	193,500	21,000	18,100	35,800	63,500	490,100
1987	5,900	2,400	11,800	10,400	127,800	191,300	19,100	16,800	35,300	59,300	480,000
1988	5,700	2,300	11,900	8,800	126,700	195,100	20,300	15,400	34,900	55,700	476,800

Year	Alcoholics <sup>1</sup> Per 100,000 Population										Canada <sup>2,3</sup>
	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	
1974	800	1,500	1,700	1,700	2,700	2,800	2,400	1,800	2,000	3,700	2,600
1975	600	1,500	1,700	1,700	2,800	2,800	2,400	2,000	2,100	3,900	2,700
1976	700	1,400	1,700	1,800	2,800	2,900	2,300	1,900	2,200	3,700	2,700
1977	1,100	1,300	1,600	2,000	2,800	2,800	2,200	1,800	2,300	3,800	2,700
1978	1,200	1,200	1,600	2,000	2,700	2,700	2,300	1,800	2,300	3,900	2,600
1979	1,100	1,500	1,600	1,800	2,400	2,600	2,400	1,700	2,400	4,000	2,500
1980	1,100	1,400	1,500	1,700	2,400	2,600	2,400	1,800	2,400	3,900	2,500
1981	900	1,300	1,400	1,600	2,300	2,500	2,400	1,700	2,300	3,600	2,400
1982	900	1,100	1,500	1,500	2,100	2,400	2,400	1,800	2,200	3,100	2,200
1983	900	900	1,600	1,500	2,000	2,200	2,200	2,000	2,100	2,500	2,000
1984	800	900	1,500	1,400	2,000	2,200	2,100	2,000	1,900	2,200	2,000
1985	900	1,400	1,400	1,300	2,000	2,100	2,100	1,900	1,600	2,200	2,000
1986	1,000	1,900	1,400	1,400	2,000	2,100	2,000	1,800	1,500	2,200	1,900
1987	1,000	1,900	1,300	1,500	1,900	2,100	1,800	1,700	1,500	2,000	1,900
1988	1,000	1,800	1,300	1,200	1,900	2,100	1,900	1,500	1,500	1,900	1,800



TABLE I.1 (Concluded)

## ESTIMATED PREVALENCE OF ALCOHOLISM, CANADA AND PROVINCES, 1974 TO 1988

Year	Alcoholics <sup>1</sup> Per 100,000 Population Aged 20 and Over										
	Nfld.	P. E. I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada <sup>2,3</sup>
1974	1,400	2,500	2,800	2,900	4,300	4,400	3,800	2,900	3,200	5,700	4,200
1975	1,100	2,500	2,800	2,800	4,400	4,400	3,800	3,200	3,400	5,900	4,200
1976	1,300	2,400	2,700	3,000	4,400	4,400	3,500	3,000	3,600	5,600	4,200
1977	1,900	2,000	2,600	3,200	4,300	4,300	3,300	2,900	3,700	5,600	4,100
1978	2,100	2,000	2,500	3,100	4,000	4,100	3,600	2,800	3,700	5,800	4,000
1979	1,900	2,300	2,500	2,900	3,700	3,900	3,700	2,700	3,700	5,800	3,800
1980	1,800	2,000	2,300	2,700	3,500	3,700	3,600	2,800	3,700	5,700	3,700
1981	1,600	2,000	2,100	2,500	3,400	3,700	3,600	2,700	3,500	5,100	3,600
1982	1,500	1,800	2,200	2,300	3,100	3,400	3,500	2,700	3,300	4,300	3,300
1983	1,500	1,300	2,300	2,200	2,900	3,200	3,200	3,000	3,100	3,600	3,000
1984	1,300	1,300	2,100	2,100	2,800	3,100	3,000	3,000	2,800	3,100	2,900
1985	1,400	2,100	2,000	2,000	2,800	3,000	3,000	2,800	2,400	3,000	2,800
1986	1,600	2,800	2,000	2,100	2,700	3,000	2,800	2,600	2,200	3,000	2,700
1987	1,600	2,700	1,900	2,100	2,700	2,900	2,500	2,400	2,200	2,600	2,600
1988	1,500	2,600	1,900	1,800	2,600	2,900	2,700	2,200	2,100	2,600	2,600

<sup>1</sup> Estimated using the Jellinek formula with proportion of liver cirrhosis deaths due to alcoholism equal to 0.37 and rate of death from liver cirrhosis among all alcoholics equal to 16.53 per 10,000 (see Technical Notes, Appendix B).

<sup>2</sup> Excludes Yukon and Northwest Territories.

<sup>3</sup> Due to rounding, the components may not add up to the total.

Sources: For 1973 to 1981, Statistics Canada, Causes of Death, Provinces by Sex and Canada by Sex and Age, annual issues (Ottawa: Statistics Canada, Catalogue No. 84-203, from 1974 to 1982); for 1982 to 1986, Statistics Canada, Causes of Deaths - Vital Statistics Volume IV, 1982, 1983, 1984, 1985, 1986, (Ottawa: Statistics Canada, Catalogue No. 84-203, 1984, 1985, 1986, 1987, and 1988 respectively); Health Reports Supplement, Volume 1, No. 1, 1989 - Causes of Death, 1987 (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1989); Statistics Canada, Health Reports, Supplement, Volume 1, No. 1, 1989 - Causes of Death, 1988 (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1990); Statistics Canada, Health Reports Supplement No. 11, 1990, Volume 2, No. 1 - Causes of Death, 1988 (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1990); Statistics Canada, Health Reports Supplement No. 11, 1991, Volume 3, No. 1 - Causes of Death, 1989 (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1991).



TABLE I.2

HOSPITAL SEPARATIONS FOR ALCOHOL-RELATED CASES BY SEX,  
CANADA AND PROVINCES, 1984-85 TO 1987-88

MENTAL DISORDERS:

Province	Alcoholic Psychoses						Total						
	Male			Female									
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	Total
Nfld.	65	75	67	78	8	6	13	14	73	81	80	80	92
P.E.I.	16	20	31	13	2	3	5	3	18	23	36	36	16
N.S.	156	146	116	134	25	21	29	18	181	167	145	152	152
N.B.	98	85	91	101	10	16	21	17	108	101	112	112	118
Que.	591	536	508	558	130	127	113	116	721	663	621	674	674
Ont.	1,023	1,062	1,146	1,211	323	292	328	337	1,346	1,354	1,474	1,548	1,548
Man.	494	538	519	540	178	181	164	190	672	719	683	730	730
Sask.	327	294	255	258	101	95	85	65	428	389	340	323	323
Alta.	562	671	602	516	165	169	180	131	727	840	782	647	647
B.C.	731	694	803	733	238	233	244	250	969	927	1,047	983	983
Canada <sup>1</sup>	4,063	4,121	4,138	4,142	1,180	1,143	1,182	1,141	5,243	5,264	5,320	5,283	5,283

Alcoholic Dependence Syndrome

Province	Alcoholic Dependence Syndrome						Total						
	Male			Female									
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	Total
Nfld.	225	287	230	304	58	51	46	53	283	338	276	357	357
P.E.I.	242	277	287	283	22	50	42	42	264	327	329	325	325
N.S.	535	509	484	552	85	81	86	115	620	590	570	667	667
N.B.	413	400	431	365	60	64	60	75	473	464	491	440	440
Que.	3,858	3,532	3,163	3,135	863	746	768	771	4,721	4,278	3,931	3,906	3,906
Ont.	4,301	4,127	4,486	4,314	1,506	1,424	1,521	1,548	5,807	5,551	6,007	5,862	5,862
Man.	386	355	306	297	135	141	128	124	521	496	434	421	421
Sask.	753	826	843	857	281	309	316	335	1,034	1,135	1,159	1,192	1,192
Alta.	2,359	2,406	2,440	1,115	1,048	1,144	1,149	457	3,407	3,550	3,589	1,572	1,572
B.C.	1,041	929	1,039	975	395	396	495	466	1,436	1,325	1,534	1,441	1,441
Canada <sup>1</sup>	14,113	13,648	13,709	12,197	4,453	4,406	4,611	3,986	18,566	18,054	18,320	16,183	16,183

TABLE I.2 (Continued)

### HOSPITAL SEPARATIONS FOR ALCOHOL-RELATED CASES BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

#### MENTAL DISORDERS (Cont'd):

Province	Male				Nondependent Abuse of Alcohol				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	54	58	54	64	22	24	18	22	76	82	72	86	76	82	72	86
P.E.I.	7	4	9	7	5	1	3	5	12	5	12	12	12	5	12	12
N.S.	34	45	36	35	19	21	19	11	53	66	55	46	53	66	55	46
N.B.	41	48	40	48	8	21	18	21	49	69	58	69	49	69	58	69
Que.	350	300	296	255	132	108	88	136	482	408	384	391	482	408	384	391
Ont.	678	667	745	703	411	364	411	441	1,089	1,031	1,156	1,144	1,089	1,031	1,156	1,144
Man.	75	64	76	81	42	56	50	43	117	120	126	124	117	120	126	124
Sask.	182	153	164	148	130	103	92	89	312	256	256	237	312	256	256	237
Alta.	241	283	281	247	141	158	163	158	382	441	444	405	382	441	444	405
B.C.	205	305	303	370	156	150	211	227	361	455	514	597	361	455	514	597
Canada <sup>1</sup>	1,967	1,927	2,004	1,958	1,066	1,006	1,073	1,153	2,933	2,933	3,077	3,111	2,933	2,933	3,077	3,111

#### DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS:

Province	Male				Alcoholic Polyneuropathy				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	1	-	-	1	-	-	-	-	-	-	-	-	1	-
N.S.	2	7	3	1	1	1	1	2	3	8	4	3	3	8	4	3
N.B.	1	1	4	1	-	-	1	1	1	1	1	2	1	1	5	2
Que.	17	21	18	17	6	2	4	4	23	23	22	21	23	23	22	21
Ont.	9	20	11	10	2	4	-	-	11	24	11	10	11	24	11	10
Man.	4	2	2	4	1	-	2	1	5	2	4	5	5	2	4	5
Sask.	6	6	5	3	3	-	1	1	9	6	6	4	9	6	6	4
Alta.	15	12	12	8	3	3	7	2	18	15	19	10	18	15	19	10
B.C.	6	8	7	11	4	2	-	4	10	10	7	15	10	10	7	15
Canada <sup>1</sup>	60	78	63	55	20	13	16	15	80	91	79	70	80	91	79	70

TABLE I.2 (Continued)

HOSPITAL SEPARATIONS FOR ALCOHOL-RELATED CASES BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

DISEASES OF THE CIRCULATORY SYSTEM:

Province	Alcoholic Cardiomyopathy															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	1	3	2	6	-	-	-	1	-	-	-	1	1	-	-	3
P.E.I.	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	16	17	8	9	-	-	-	-	-	-	-	-	16	17	8	9
N.B.	9	5	5	7	1	-	-	-	-	-	-	-	10	5	5	7
Que.	26	44	40	37	1	1	1	3	1	1	3	7	27	45	41	40
Ont.	75	80	72	78	5	13	3	7	80	93	75	85	80	93	75	85
Man.	7	7	8	8	-	-	-	2	-	-	-	7	7	7	8	10
Sask.	7	6	8	6	-	1	1	1	-	-	-	7	7	7	9	6
Alta.	25	28	30	31	3	3	4	1	28	31	34	32	28	31	34	32
B.C.	44	58	39	43	7	2	4	4	51	60	43	47	51	60	43	47
Canada <sup>1</sup>	210	248	212	226	17	20	13	18	227	268	225	244	227	268	225	244

DISEASES OF THE DIGESTIVE SYSTEM:

Province	Alcoholic Gastritis															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	37	36	28	21	2	1	4	2	39	37	32	23	39	37	32	23
P.E.I.	11	6	18	14	1	2	-	-	12	8	18	14	12	8	18	14
N.S.	71	74	67	92	11	17	13	19	82	91	80	111	82	91	80	111
N.B.	65	56	66	64	15	13	13	13	80	69	79	77	80	69	79	77
Que.	221	152	129	141	27	24	32	35	248	176	161	176	248	176	161	176
Ont.	471	429	452	444	115	121	120	119	586	550	572	563	586	550	572	563
Man.	56	54	50	61	29	19	34	35	85	73	84	96	85	73	84	96
Sask.	159	136	178	107	72	51	70	64	231	187	248	171	231	187	248	171
Alta.	301	341	303	307	119	109	135	107	420	450	438	414	420	450	438	414
B.C.	373	340	365	358	183	175	172	180	556	515	537	538	556	515	537	538
Canada <sup>1</sup>	1,765	1,624	1,656	1,609	574	532	593	574	2,339	2,156	2,249	2,183	2,339	2,156	2,249	2,183



TABLE I.2 (Continued)

HOSPITAL SEPARATIONS FOR ALCOHOL-RELATED CASES BY SEX,  
CANADA AND PROVINCES, 1984-85 TO 1987-88

## DISEASES OF THE DIGESTIVE SYSTEM (Cont'd):

Province	Alcohol-Related Chronic Liver Disease and Cirrhosis											
	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	37	41	35	33	5	13	15	5	42	54	50	38
P.E.I.	9	17	18	16	-	4	2	1	9	21	20	17
N.S.	84	107	123	116	46	38	34	35	130	145	157	151
N.B.	79	76	76	91	18	25	12	31	97	101	88	122
Que.	1,053	1,021	1,043	1,063	308	305	285	293	1,361	1,326	1,328	1,356
Ont.	1,449	1,439	1,512	1,562	593	550	598	628	2,042	1,989	2,110	2,190
Man.	154	144	166	120	81	89	86	81	235	233	252	201
Sask.	104	136	153	129	46	37	56	57	150	173	209	186
Alta.	300	369	291	276	181	192	193	144	481	561	484	420
B.C.	494	472	418	453	258	236	245	238	752	708	663	691
Canada <sup>1</sup>	3,763	3,822	3,835	3,859	1,536	1,489	1,526	1,513	5,299	5,311	5,361	5,372

Specified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol<sup>2</sup>

Province	Specified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol <sup>2</sup>											
	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	5	5	5	7	13	20	15	17	18	25	20	24
P.E.I.	3	4	1	3	2	2	1	1	5	6	2	4
N.S.	20	22	21	18	35	34	56	55	55	56	77	73
N.B.	9	8	19	13	21	26	25	12	30	34	44	25
Que.	133	155	144	144	221	217	236	223	354	372	380	367
Ont.	205	183	197	211	336	349	332	357	541	532	529	568
Man.	10	17	3	5	23	23	17	28	33	40	20	33
Sask.	21	13	12	22	29	29	37	58	50	42	49	80
Alta.	65	52	47	32	98	94	97	80	163	146	144	112
B.C.	38	29	53	33	101	91	103	94	139	120	156	127
Canada <sup>1</sup>	509	488	502	488	879	885	919	925	1,388	1,373	1,421	1,413

TABLE I.2 (Continued)

HOSPITAL SEPARATIONS FOR ALCOHOL-RELATED CASES BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

DISEASES OF THE DIGESTIVE SYSTEM (Cont'd):

Province	Unspecified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol <sup>1</sup>															
	Male							Female							Total	
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	13	19	12	15	8	17	22	13	21	12	6	11	36	34	28	
P.E.I.	3	3	8	5	9	4	6	11	12	7	4	11	7	14	16	
N.S.	48	37	37	41	41	36	50	43	89	73	50	43	89	87	84	
N.B.	32	35	30	27	19	18	17	31	51	53	17	31	53	47	58	
Que.	315	295	389	335	304	264	305	309	619	559	305	309	559	694	644	
Ont.	351	281	306	301	305	309	310	305	656	590	310	305	590	616	606	
Man.	44	31	25	22	29	22	31	35	73	53	22	31	53	56	57	
Sask.	66	66	62	42	23	30	39	43	89	96	30	43	96	101	85	
Alta.	59	71	52	40	74	65	60	69	133	136	60	69	133	112	109	
B.C.	67	56	75	75	56	86	81	92	123	142	81	92	142	156	167	
Canada <sup>1</sup>	998	894	996	903	868	851	921	951	1,866	1,745	921	951	1,866	1,917	1,854	

Province	Portal Hypertension															
	Male							Female							Total	
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	-	2	2	2	2	-	3	-	2	-	3	-	2	5	2	
P.E.I.	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	
N.S.	4	7	5	6	11	2	4	4	15	9	4	4	15	9	10	
N.B.	1	6	7	8	2	3	1	1	3	9	1	1	3	8	9	
Que.	25	14	17	8	14	9	8	17	39	23	9	13	39	25	25	
Ont.	30	22	30	22	12	19	19	13	42	41	19	13	42	49	35	
Man.	5	2	5	9	5	3	3	7	10	4	3	7	10	8	16	
Sask.	1	1	3	3	3	3	-	2	4	4	-	2	4	3	5	
Alta.	8	9	14	7	9	13	10	10	17	22	10	10	17	24	17	
B.C.	24	11	8	14	3	8	4	11	27	19	4	11	27	19	12	
Canada <sup>1</sup>	98	75	91	79	61	59	52	65	159	134	52	65	159	143	144	



TABLE I.2 (Continued)

HOSPITAL SEPARATIONS FOR ALCOHOL-RELATED CASES BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

INJURY AND POISONING:

Province	Toxic Effects of Alcohol												
	Male					Female					Total		
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1988-89
Nfld.	15	17	13	7	6	5	7	1	21	22	20	8	
P.E.I.	3	1	5	3	1	2	3	-	4	3	8	3	
N.S.	24	13	23	18	6	12	6	10	30	25	29	28	
N.B.	19	13	19	16	11	5	5	13	30	18	24	29	
Que.	72	65	66	65	45	37	36	40	117	102	102	105	
Ont.	236	199	179	224	166	150	145	137	402	349	324	361	
Man.	20	15	19	14	13	16	12	15	33	31	31	29	
Sask.	57	55	40	43	29	44	41	30	86	99	81	73	
Alta.	105	119	97	96	63	73	81	64	168	192	178	160	
B.C.	96	95	111	117	76	92	83	66	172	187	194	183	
Canada <sup>1</sup>	647	592	572	603	416	436	419	376	1,063	1,028	991	979	

OTHER:

Province	Excessive Blood Level of Alcohol												
	Male					Female					Total		
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1988-89
Canada <sup>1</sup>	-	1	4	1	1	-	4	1	1	1	8	2	

Province	Alcoholic Pellagra												
	Male					Female					Total		
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1988-89
Canada <sup>1</sup>	-	1	-	1	1	1	-	2	1	2	-	3	

Suspected Damage to the Fetus from Maternal Alcohol Addiction, Listeriosis or Toxoplasmosis

Province	Suspected Damage to the Fetus from Maternal Alcohol Addiction, Listeriosis or Toxoplasmosis												
	Male					Female					Total		
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1988-89
Canada <sup>1</sup>	...	...	...	...	21	22	14	11	21	22	14	11	

TABLE 1.2 (Concluded)

HOSPITAL SEPARATIONS FOR ALCOHOL-RELATED CASES BY SEX,  
CANADA AND PROVINCES, 1984-85 TO 1987-88

OTHER (Cont'd):

Canada <sup>1</sup>	Noxious Influences Transmitted Via Placenta or Breast Milk															
	Male							Female							Total	
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
	15	12	9	7	13	17	8	13	28	29	17	20	28	29	17	20

TOTAL ALL CAUSES:

Province	Total Alcohol <sup>3</sup>															
	Male							Female							Total	
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	452	544	448	537	124	137	143	128	576	681	591	665	576	681	591	665
P.E.I.	294	333	378	345	42	69	62	63	336	402	440	408	336	402	440	408
N.S.	994	984	923	1,022	280	263	298	312	1,274	1,247	1,221	1,334	1,274	1,247	1,221	1,334
N.B.	767	733	788	741	165	191	173	215	932	924	961	956	932	924	961	956
Que.	6,661	6,135	5,813	5,758	2,051	1,840	1,876	1,947	8,712	7,975	7,689	7,705	8,712	7,975	7,689	7,705
Ont.	8,828	8,509	9,136	9,080	3,774	3,595	3,787	3,892	12,602	12,104	12,923	12,972	12,602	12,104	12,923	12,972
Man.	1,255	1,229	1,179	1,161	536	549	527	561	1,791	1,778	1,706	1,722	1,791	1,778	1,706	1,722
Sask.	1,683	1,692	1,723	1,618	717	702	738	744	2,400	2,394	2,461	2,362	2,400	2,394	2,461	2,362
Alta.	4,040	4,361	4,169	2,675	1,904	2,023	2,079	1,223	5,944	6,384	6,248	3,898	5,944	6,384	6,248	3,898
B.C.	3,119	2,997	3,221	3,182	1,477	1,471	1,642	1,632	4,596	4,468	4,863	4,814	4,596	4,468	4,863	4,814
Canada <sup>1,3</sup>	28,093	27,517	27,778	26,119	11,070	10,840	11,325	10,717	39,163	38,357	39,103	36,836	39,163	38,357	39,103	36,836
Canada <sup>1,4</sup>	28,108	27,531	27,791	26,128	11,106	10,880	11,351	10,744	39,214	38,411	39,142	36,872	39,214	38,411	39,142	36,872

<sup>1</sup> Excludes newborns, Yukon and Northwest Territories.

<sup>2</sup> While alcohol is not specifically mentioned, it may be a factor.

<sup>3</sup> Excludes excessive blood level of alcohol; alcoholic pellagra; suspected damage to the fetus from maternal alcohol addiction; listeriosis and toxoplasmosis; and noxious influences transmitted via placenta or breast milk.

<sup>4</sup> Includes all listed diagnostic categories.

Sources: Data were obtained from the Canadian Centre for Health Information, Statistics Canada.

TABLE I.3

HOSPITAL SEPARATION RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION,  
BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

MENTAL DISORDERS:

Province	Alcoholic Psychoses															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	22.7	26.3	23.6	27.5	2.8	2.1	4.6	4.9	12.8	14.2	14.1	16.2	12.8	14.2	14.1	16.2
P.E.I.	25.7	31.9	49.2	20.6	3.2	4.7	7.8	4.7	14.4	18.2	28.4	12.5	14.4	18.2	28.4	12.5
N.S.	36.4	33.9	26.9	30.9	5.7	4.8	6.5	4.0	20.9	19.1	16.6	17.2	20.9	19.1	16.6	17.2
N.B.	27.9	24.2	25.9	28.7	2.8	4.5	5.8	4.7	15.2	14.2	15.8	16.6	15.2	14.2	15.8	16.6
Que.	18.5	16.8	15.8	17.2	3.9	3.8	3.4	3.4	11.1	10.2	9.5	10.2	11.1	10.2	9.5	10.2
Ont.	23.3	23.9	25.5	26.4	7.1	6.3	7.0	7.1	15.0	15.0	16.1	16.6	15.0	15.0	16.1	16.6
Man.	94.7	102.5	98.1	101.4	33.2	33.5	30.1	34.7	63.5	67.5	63.6	67.6	63.5	67.5	63.6	67.6
Sask.	65.0	58.2	50.5	51.0	20.1	18.8	16.8	12.8	42.6	38.5	33.7	31.9	42.6	38.5	33.7	31.9
Alta.	47.6	56.6	50.3	43.1	14.3	14.5	15.3	11.1	31.2	35.8	32.9	27.2	31.2	35.8	32.9	27.2
B.C.	51.6	48.6	55.9	50.3	16.5	16.0	16.7	16.8	33.9	32.2	36.1	33.4	33.9	32.2	36.1	33.4
Canada <sup>1</sup>	32.8	33.1	33.0	32.6	9.3	8.9	9.2	8.8	20.9	20.9	20.9	20.5	20.9	20.9	20.9	20.5

Province	Alcoholic Dependence Syndrome															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	78.6	100.7	81.0	107.3	20.4	17.9	16.2	18.6	49.5	59.4	48.6	62.9	49.5	59.4	48.6	62.9
P.E.I.	388.4	441.8	455.6	447.8	34.9	78.9	65.8	65.2	210.7	259.3	259.5	254.7	210.7	259.3	259.5	254.7
N.S.	124.9	118.3	112.1	127.2	19.4	18.3	19.4	25.7	71.5	67.7	65.1	75.7	71.5	67.7	65.1	75.7
N.B.	117.6	113.8	122.7	103.8	16.8	17.8	16.7	20.8	66.7	65.3	69.1	61.8	66.7	65.3	69.1	61.8
Que.	120.9	110.4	98.4	96.8	26.1	22.4	23.0	22.9	72.6	65.6	60.0	59.1	72.6	65.6	60.0	59.1
Ont.	97.8	92.9	99.7	94.1	33.1	30.9	32.6	32.6	64.9	61.3	65.5	62.8	64.9	61.3	65.5	62.8
Man.	74.0	67.6	57.8	55.8	25.2	26.1	23.5	22.6	49.3	46.6	40.4	39.0	49.3	46.6	40.4	39.0
Sask.	149.8	163.6	167.1	169.5	56.0	61.2	62.5	66.1	102.9	112.3	114.8	117.7	102.9	112.3	114.8	117.7
Alta.	199.7	202.8	204.0	93.0	91.0	98.3	97.5	38.6	146.0	151.1	151.2	66.0	146.0	151.1	151.2	66.0
B.C.	73.4	65.1	72.3	66.9	27.4	27.3	33.8	31.3	50.2	46.0	52.9	48.9	50.2	46.0	52.9	48.9
Canada <sup>1</sup>	114.0	109.6	109.2	96.1	35.1	34.5	35.8	30.6	74.1	71.6	72.0	62.9	74.1	71.6	72.0	62.9



TABLE 1.3 (Continued)

HOSPITAL SEPARATION RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

MENTAL DISORDERS (Cont'd):

Province	Nondependent Abuse of Alcohol						Total					
	Male			Female								
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	18.9	20.3	19.0	22.6	7.7	8.4	6.3	7.7	13.3	14.4	12.7	15.2
P.E.I.	11.2	6.4	14.3	11.1	7.9	1.6	4.7	7.8	9.6	4.0	9.5	9.4
N.S.	7.9	10.5	8.3	8.1	4.3	4.8	4.3	2.5	6.1	7.6	6.3	5.2
N.B.	11.7	13.7	11.4	13.6	2.2	5.9	5.0	5.8	6.9	9.7	8.2	9.7
Que.	11.0	9.4	9.2	7.9	4.0	3.2	2.6	4.0	7.4	6.3	5.9	5.9
Ont.	15.4	15.0	16.6	15.3	9.0	7.9	8.8	9.3	12.2	11.4	12.6	12.3
Man.	14.4	12.2	14.4	15.2	7.8	10.4	9.2	7.9	11.1	11.3	11.7	11.5
Sask.	36.2	30.3	32.5	29.3	25.9	20.4	18.2	17.6	31.1	25.3	25.3	23.4
Alta.	20.4	23.9	23.5	20.6	12.2	13.6	13.8	13.4	16.4	18.8	18.7	17.0
B.C.	14.5	21.4	21.1	25.4	10.8	10.3	14.4	15.3	12.6	15.8	17.7	20.3
Canada <sup>1</sup>	15.1	15.5	16.0	15.4	8.4	7.9	8.3	8.8	11.7	11.6	12.1	12.1

DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS:

Province	Alcoholic Polyneuropathy						Total					
	Male			Female								
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	-	0.4	-	-	-	-	-	-	-	0.2	-	-
P.E.I.	-	-	1.6	-	-	1.6	-	-	-	0.8	0.8	-
N.S.	0.5	1.6	0.7	0.2	0.2	0.2	0.2	0.4	0.3	0.9	0.5	0.3
N.B.	0.3	0.3	1.1	0.3	-	-	0.3	0.3	0.1	0.1	0.7	0.3
Que.	0.5	0.7	0.6	0.5	0.2	0.1	0.1	0.1	0.4	0.4	0.3	0.3
Ont.	0.2	0.4	0.2	0.2	..	0.1	-	-	0.1	0.3	0.1	0.1
Man.	0.8	0.4	0.4	0.8	0.2	-	0.4	0.2	0.5	0.2	0.4	0.5
Sask.	1.2	1.2	1.0	0.6	0.6	-	0.2	0.2	0.9	0.6	0.6	0.4
Alta.	1.3	1.0	1.0	0.7	0.3	0.3	0.6	0.2	0.8	0.6	0.8	0.4
B.C.	0.4	0.6	0.5	0.8	0.3	0.1	-	0.3	0.3	0.3	0.2	0.5
Canada <sup>1</sup>	0.5	0.6	0.5	0.4	0.2	0.1	0.1	0.1	0.3	0.4	0.3	0.3



TABLE I.3 (Continued)

HOSPITAL SEPARATION RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION,  
BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

DISEASES OF THE CIRCULATORY SYSTEM:

Province	Alcoholic Cardiomyopathy															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	0.3	1.1	0.7	2.1	-	-	-	0.4	-	-	-	-	0.2	0.5	0.4	1.2
P.E.I.	-	-	-	1.6	-	-	-	-	-	-	-	-	-	-	-	0.8
N.S.	3.7	4.0	1.9	2.1	-	-	-	-	-	-	-	-	1.8	1.9	0.9	1.0
N.B.	2.6	1.4	1.4	2.0	0.3	-	-	-	-	-	-	-	1.4	0.7	0.7	1.0
Que.	0.8	1.4	1.2	1.1	-	-	-	0.1	-	-	-	0.1	0.4	0.7	0.6	0.6
Ont.	1.7	1.8	1.6	1.7	0.1	0.3	0.1	-	0.4	-	-	0.4	0.7	0.7	0.9	0.9
Man.	1.3	1.3	1.5	1.5	-	-	-	-	-	0.2	0.2	-	0.7	0.7	0.9	0.6
Sask.	1.4	1.2	1.6	1.2	-	-	-	-	-	0.3	0.3	0.1	1.2	1.3	1.4	1.3
Alta.	2.1	2.4	2.5	2.6	0.3	0.5	0.1	0.3	0.3	0.1	0.3	0.1	1.2	1.3	1.4	1.3
B.C.	3.1	4.1	2.7	3.0	0.5	0.1	0.3	0.3	0.1	0.1	0.3	0.3	1.8	2.1	1.5	1.6
Canada <sup>1</sup>	1.7	2.0	1.7	1.8	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.9	1.1	0.9	0.9

DISEASES OF THE DIGESTIVE SYSTEM:

Province	Alcoholic Gastritis															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	12.9	12.6	9.9	7.4	0.7	0.4	1.4	0.7	0.7	0.4	0.7	0.7	6.8	6.5	5.6	4.1
P.E.I.	17.7	9.6	28.6	22.2	1.6	3.2	-	-	-	3.2	-	-	9.6	6.3	14.2	11.0
N.S.	16.6	17.2	15.5	21.2	2.5	3.8	2.9	4.2	4.2	3.8	2.9	4.2	9.5	10.4	9.1	12.6
N.B.	18.5	15.9	18.8	18.2	4.2	3.6	3.6	3.6	3.6	4.2	3.6	3.6	11.3	9.7	11.1	10.8
Que.	6.9	4.8	4.0	4.4	0.8	0.7	1.0	1.0	1.0	0.8	0.7	1.0	3.8	2.7	2.5	2.7
Ont.	10.7	9.7	10.0	9.7	2.5	2.6	2.6	2.5	2.5	2.6	2.6	2.5	6.5	6.1	6.2	6.0
Man.	10.7	10.3	9.5	11.5	5.4	3.5	6.2	6.4	6.4	5.4	6.2	6.4	8.0	6.9	7.8	8.9
Sask.	31.6	26.9	35.3	21.2	14.3	10.1	13.9	12.6	12.6	14.3	10.1	13.9	23.0	18.5	24.6	16.9
Alta.	25.5	28.7	25.3	25.6	10.3	9.4	11.5	9.0	9.0	10.3	9.4	11.5	18.0	19.2	18.4	17.4
B.C.	26.3	23.8	25.4	24.6	12.7	12.0	11.7	12.1	12.1	12.7	12.0	11.7	19.5	17.9	18.5	18.3
Canada <sup>1</sup>	14.3	13.0	13.2	12.7	4.5	4.2	4.6	4.4	4.4	4.5	4.2	4.6	9.3	8.5	8.8	8.5

TABLE I.3 (Continued)

HOSPITAL SEPARATION RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

DISEASES OF THE DIGESTIVE SYSTEM (Cont'd):

Province	Alcohol-Related Chronic Liver Disease and Cirrhosis											
	Male			Female			Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	12.9	14.4	12.3	11.7	1.8	4.6	5.3	1.8	7.4	9.5	8.8	6.7
P.E.I.	14.4	27.1	28.6	25.3	-	6.3	3.1	1.6	7.2	16.7	15.8	13.3
N.S.	19.6	24.9	28.5	26.7	10.5	8.6	7.7	7.8	15.0	16.6	17.9	17.1
N.B.	22.5	21.6	21.6	25.9	5.0	7.0	3.3	8.6	13.7	14.2	12.4	17.1
Que.	33.0	31.9	32.5	32.8	9.3	9.2	8.5	8.7	20.9	20.3	20.3	20.5
Ont.	33.0	32.4	33.6	34.1	13.0	11.9	12.8	13.2	22.8	22.0	23.0	23.5
Man.	29.5	27.4	31.4	22.5	15.1	16.5	15.8	14.8	22.2	21.9	23.5	18.6
Sask.	20.7	26.9	30.3	25.5	9.2	7.3	11.1	11.2	14.9	17.1	20.7	18.4
Alta.	25.4	31.1	24.3	23.0	15.7	16.5	16.4	12.2	20.6	23.9	20.4	17.6
B.C.	34.8	33.1	29.1	31.1	17.9	16.2	16.7	16.0	26.3	24.6	22.9	23.5
Canada <sup>1</sup>	30.4	30.7	30.6	30.4	12.1	11.7	11.8	11.6	21.2	21.0	21.1	20.9

Province	Specified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol <sup>2</sup>											
	Male			Female			Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	1.7	1.8	1.8	2.5	4.6	7.0	5.3	6.0	3.2	4.4	3.5	4.2
P.E.I.	4.8	6.4	1.6	4.7	3.2	3.2	1.6	1.6	4.0	4.8	1.6	3.1
N.S.	4.7	5.1	4.9	4.1	8.0	7.7	12.6	12.3	6.3	6.4	8.8	8.3
N.B.	2.6	2.3	5.4	3.7	5.9	7.2	7.0	3.3	4.2	4.8	6.2	3.5
Que.	4.2	4.8	4.5	4.4	6.7	6.5	7.1	6.6	5.4	5.7	5.8	5.6
Ont.	4.7	4.1	4.4	4.6	7.4	7.6	7.1	7.5	6.0	5.9	5.8	6.1
Man.	1.9	3.2	0.6	0.9	4.3	4.3	3.1	5.1	3.1	3.8	1.9	3.1
Sask.	4.2	2.6	2.4	4.4	5.8	5.7	7.3	11.4	5.0	4.2	4.9	7.9
Alta.	5.5	4.4	3.9	2.7	8.5	8.1	8.2	6.8	7.0	6.2	6.1	4.7
B.C.	2.7	2.0	3.7	2.3	7.0	6.3	7.0	6.3	4.9	4.2	5.4	4.3
Canada <sup>1</sup>	4.1	3.9	4.0	3.8	6.9	6.9	7.1	7.1	5.5	5.4	5.6	5.5

TABLE I.3 (Continued)

### HOSPITAL SEPARATION RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

#### DISEASES OF THE DIGESTIVE SYSTEM (Cont'd):

Province	Unspecified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol <sup>2</sup>											
	Male			Female			Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	4.5	6.7	4.2	5.3	2.8	6.0	7.7	4.6	3.7	6.3	6.0	4.9
P.E.I.	4.8	4.8	12.7	7.9	14.3	6.3	9.4	17.1	9.6	5.6	11.0	12.5
N.S.	11.2	8.6	8.6	9.4	9.3	8.1	11.3	9.6	10.3	8.4	9.9	9.5
N.B.	9.1	10.0	8.5	7.7	5.3	5.0	4.7	8.6	7.2	7.5	6.6	8.1
Que.	9.9	9.2	12.1	10.3	9.2	7.9	9.1	9.2	9.5	8.6	10.6	9.7
Ont.	8.0	6.3	6.8	6.6	6.7	6.7	6.6	6.4	7.3	6.5	6.7	6.5
Man.	8.4	5.9	4.7	4.1	5.4	4.1	5.7	6.4	6.9	5.0	5.2	5.3
Sask.	13.1	13.1	12.3	8.3	4.6	5.9	7.7	8.5	8.9	9.5	10.0	8.4
Alta.	5.0	6.0	4.3	3.3	6.4	5.6	5.1	5.8	5.7	5.8	4.7	4.6
B.C.	4.7	3.9	5.2	5.1	3.9	5.9	5.5	6.2	4.3	4.9	5.4	5.7
Canada <sup>1</sup>	8.1	7.2	7.9	7.1	6.9	6.7	7.1	7.3	7.4	6.9	7.5	7.2

Province	Portal Hypertension											
	Male			Female			Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	-	0.7	0.7	0.7	0.7	-	1.1	-	0.4	0.4	0.9	0.4
P.E.I.	-	1.6	-	-	-	-	-	-	-	0.8	-	-
N.S.	0.9	1.6	1.2	1.4	2.5	0.5	0.9	0.9	1.7	1.0	1.0	1.1
N.B.	0.3	1.7	2.0	2.3	0.6	0.8	0.3	0.3	0.4	1.3	1.1	1.3
Que.	0.8	0.4	0.5	0.2	0.4	0.3	0.2	0.5	0.6	0.4	0.4	0.4
Ont.	0.7	0.5	0.7	0.5	0.3	0.4	0.4	0.3	0.5	0.5	0.5	0.4
Man.	1.0	0.4	0.9	1.7	0.9	0.4	0.6	1.3	0.9	0.4	0.7	1.5
Sask.	0.2	0.2	0.6	0.6	0.6	0.6	-	0.4	0.4	0.4	0.3	0.5
Alta.	0.7	0.8	1.2	0.6	0.8	1.1	0.8	0.8	0.7	0.9	1.0	0.7
B.C.	1.7	0.8	0.6	1.0	0.2	0.6	0.3	0.7	0.9	0.7	0.4	0.8
Canada <sup>1</sup>	0.8	0.6	0.7	0.6	0.5	0.5	0.4	0.5	0.6	0.5	0.6	0.6



TABLE 1.3 (Continued)

HOSPITAL SEPARATION RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

INJURY AND POISONING:

Province	Toxic Effects of Alcohol															
	Male					Female					Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	5.2	6.0	4.6	2.5	2.1	1.8	2.5	0.4	3.7	3.9	3.5	1.4	3.7	3.9	3.5	1.4
P.E.I.	4.8	1.6	7.9	4.7	1.6	3.2	4.7	-	3.2	2.4	6.3	2.4	3.2	2.4	6.3	2.4
N.S.	5.6	3.0	5.3	4.1	1.4	2.7	1.4	2.2	3.5	2.9	3.3	3.2	3.5	2.9	3.3	3.2
N.B.	5.4	3.7	5.4	4.5	3.1	1.4	1.4	3.6	4.2	2.5	3.4	4.1	3.6	4.2	2.5	3.4
Que.	2.3	2.0	2.1	2.0	1.4	1.1	1.1	1.2	1.8	1.6	1.6	1.6	1.8	1.6	1.6	1.6
Ont.	5.4	4.5	4.0	4.9	3.6	3.3	3.1	2.9	4.5	3.9	3.5	3.9	4.5	3.9	3.5	3.9
Man.	3.8	2.9	3.6	2.6	2.4	3.0	2.2	2.7	3.1	2.9	2.9	2.7	3.1	2.9	2.9	2.7
Sask.	11.3	10.9	7.9	8.5	5.8	8.7	8.1	5.9	8.6	9.8	8.0	7.2	8.6	9.8	8.0	7.2
Alta.	8.9	10.0	8.1	8.0	5.5	6.3	6.9	5.4	7.2	8.2	7.5	6.7	7.2	8.2	7.5	6.7
B.C.	6.8	6.7	7.7	8.0	5.3	6.3	5.7	4.4	6.0	6.5	6.7	6.2	6.0	6.5	6.7	6.2
Canada <sup>1</sup>	5.2	4.8	4.6	4.8	3.3	3.4	3.3	2.9	4.2	4.1	3.9	3.8	4.2	4.1	3.9	3.8

OTHER:

Province	Excessive Blood Level of Alcohol															
	Male					Female					Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Canada <sup>1</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Province	Alcoholic Pellagra															
	Male					Female					Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Canada <sup>1</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Province	Suspected Damage to the Fetus from Maternal Alcohol Addiction, Listeriosis or Toxoplasmosis															
	Male					Female					Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Canada <sup>1</sup>	-	-	-	-	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1



TABLE I.3 (Concluded)

HOSPITAL SEPARATION RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

OTHER (Cont'd):

Province	Noxious Influences Transmitted Via Placenta or Breast Milk											
	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Canada <sup>1</sup>	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>TOTAL ALL CAUSES:</b>												
	<b>Total Alcohol<sup>3</sup></b>											
	<b>Male</b>				<b>Female</b>				<b>Total</b>			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	157.8	190.8	157.7	189.6	43.5	48.2	50.3	45.0	100.8	119.6	104.0	117.2
P.E.I.	471.9	531.1	600.0	545.9	66.7	108.8	97.2	97.8	268.2	318.8	347.0	319.7
N.S.	232.0	228.7	213.8	235.4	63.8	59.5	67.1	69.8	146.8	143.0	139.4	151.4
N.B.	218.4	208.5	224.3	210.6	46.1	53.2	48.1	59.6	131.4	130.1	135.2	134.2
Que.	208.8	191.8	180.9	177.8	62.0	55.4	56.1	57.8	134.1	122.3	117.3	116.6
Ont.	200.8	191.5	203.0	198.0	82.9	78.1	81.2	82.0	140.8	133.7	141.0	139.0
Man.	240.7	234.1	222.8	217.9	100.0	101.6	96.9	102.4	169.4	166.9	159.0	159.4
Sask.	334.7	335.0	341.5	320.0	142.8	138.9	146.0	146.8	238.9	237.0	243.7	233.3
Alta.	342.0	367.7	348.6	223.2	165.3	173.9	176.5	103.3	254.7	271.7	263.2	163.7
B.C.	220.0	210.0	224.2	218.3	102.5	101.3	112.1	109.7	160.8	155.1	167.6	163.4
Canada <sup>1, 3</sup>	227.0	220.9	221.3	205.8	87.4	84.9	87.9	82.2	156.4	152.0	153.7	143.2
Canada <sup>1, 4</sup>	227.1	221.0	221.4	205.9	87.7	85.2	88.1	82.4	156.6	152.2	153.9	143.3

Notes: See corresponding notes, Table I.2.

Sources: Data were obtained from the Canadian Centre for Health Information, Statistics Canada.

TABLE I.4

HOSPITAL SEPARATIONS RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

MENTAL DISORDERS:

Province	Alcoholic Psychoses						Total					
	Male			Female								
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	36.7	42.0	37.2	43.0	4.4	3.3	7.0	7.5	20.4	22.4	21.9	25.0
P.E.I.	38.7	47.7	73.5	30.4	4.6	6.8	11.3	6.7	21.3	26.8	41.6	18.2
N.S.	53.5	49.4	38.8	44.3	8.1	6.7	9.1	5.6	30.1	27.4	23.5	24.3
N.B.	42.0	36.0	38.2	42.1	4.1	6.4	8.3	6.7	22.5	20.8	22.9	23.9
Que.	26.5	23.8	22.3	24.1	5.4	5.2	4.6	4.7	15.6	14.2	13.1	14.0
Ont.	33.3	34.0	36.0	37.2	9.8	8.7	9.6	9.7	21.2	20.9	22.3	23.0
Man.	139.2	149.6	142.7	147.0	47.2	47.3	42.4	48.7	91.8	96.9	91.0	96.3
Sask.	97.6	86.9	75.3	75.9	29.6	27.5	24.5	18.6	63.2	56.9	49.6	46.9
Alta.	70.4	83.4	74.0	63.3	20.9	21.1	22.1	16.0	45.8	52.3	48.1	39.6
B.C.	72.8	68.4	78.3	70.3	22.7	22.0	22.7	22.8	47.3	44.7	49.9	46.0
Canada <sup>1</sup>	47.5	47.5	47.1	46.4	13.1	12.5	12.7	12.1	29.8	29.5	29.4	28.7

Province	Alcoholic Dependence Syndrome						Total					
	Male			Female								
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	127.1	160.8	127.8	167.6	32.2	28.0	24.9	28.3	79.2	93.7	75.7	96.9
P.E.I.	586.0	661.1	680.1	662.8	51.0	114.2	94.6	93.1	312.8	381.6	379.9	370.2
N.S.	183.5	172.1	161.8	182.3	27.5	25.8	27.0	35.7	103.2	96.8	92.4	106.7
N.B.	176.9	169.4	181.1	152.0	24.4	25.7	23.9	29.5	98.7	95.7	100.3	89.0
Que.	172.9	156.5	138.6	135.6	36.0	30.7	31.2	31.0	102.0	91.3	82.9	81.3
Ont.	140.1	132.0	140.9	132.5	45.8	42.5	44.6	44.4	91.3	85.7	91.1	87.0
Man.	108.7	98.7	84.1	80.9	35.8	36.9	33.1	31.8	71.1	66.8	57.8	55.6
Sask.	224.7	244.2	248.9	252.1	82.2	89.4	91.0	96.0	152.8	165.9	169.0	173.0
Alta.	295.3	299.0	300.0	136.7	133.0	142.9	141.2	55.7	214.7	221.1	220.5	96.1
B.C.	103.7	91.5	101.4	93.5	37.8	37.3	46.1	42.6	70.0	63.8	73.1	67.4
Canada <sup>1</sup>	164.8	157.3	156.0	136.7	49.3	48.0	49.5	42.1	105.5	101.1	101.2	88.0

TABLE 1.4 (Continued)

HOSPITAL SEPARATIONS RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

MENTAL DISORDERS (Cont'd):

Province	Nondependent Abuse of Alcohol															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	30.5	32.5	30.0	35.3	12.2	13.2	9.8	11.8	21.3	22.7	19.8	23.3	14.2	15.8	13.9	18.7
P.E.I.	16.9	9.5	21.3	16.4	11.6	2.3	6.8	11.1	14.2	8.8	10.8	8.9	8.8	10.8	8.9	7.4
N.S.	11.7	15.2	12.0	11.6	6.1	6.7	6.0	3.4	10.2	14.2	11.8	14.0	10.2	14.2	11.8	14.0
N.B.	17.6	20.3	16.8	20.0	3.3	8.4	7.2	8.3	10.4	8.7	8.1	8.1	10.4	8.7	8.1	8.1
Que.	15.7	13.3	13.0	11.0	5.5	4.4	3.6	5.5	17.1	15.9	17.5	17.0	17.1	15.9	17.5	17.0
Ont.	22.1	21.3	23.4	21.6	12.5	10.9	12.0	12.7	16.0	16.2	16.8	16.4	16.0	16.2	16.8	16.4
Man.	21.1	17.8	20.9	22.1	11.1	14.6	12.9	11.0	24.1	27.5	24.3	24.8	24.1	27.5	24.3	24.8
Sask.	54.3	45.2	48.4	43.5	38.0	29.8	26.5	25.5	17.6	21.9	24.5	27.9	17.6	21.9	24.5	27.9
Alta.	30.2	35.2	34.6	30.3	17.9	19.7	20.0	19.3	16.7	16.4	17.0	16.9	16.7	16.4	17.0	16.9
B.C.	20.4	30.0	29.6	35.5	14.9	14.1	19.7	20.7	11.8	11.0	11.5	12.2	11.8	11.0	11.5	12.2
Canada <sup>1</sup>	21.8	22.2	22.8	21.9	11.8	11.0	11.5	12.2	16.7	16.4	17.0	16.9	16.7	16.4	17.0	16.9

DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS:

Province	Alcoholic Polyneuropathy															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	-	0.6	-	-	-	-	-	-	-	-	-	-	-	0.3	-	-
P.E.I.	-	-	2.4	-	-	2.3	-	-	-	-	-	-	-	1.2	1.2	-
N.S.	0.7	2.4	1.0	0.3	0.3	0.3	0.3	0.6	0.5	1.3	0.6	0.5	0.5	1.3	0.6	0.5
N.B.	0.4	0.4	1.7	0.4	-	0.4	0.4	0.4	0.2	0.2	1.0	0.4	0.2	0.2	1.0	0.4
Que.	0.8	0.9	0.8	0.7	0.3	0.1	0.2	0.2	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.4
Ont.	0.3	0.6	0.3	0.3	0.1	0.1	-	-	0.2	0.4	0.2	0.1	0.2	0.4	0.2	0.1
Man.	1.1	0.6	0.5	1.1	0.3	-	0.5	0.3	0.7	0.3	0.5	0.7	1.3	0.3	0.5	0.7
Sask.	1.8	1.8	1.5	0.9	0.9	-	0.3	0.3	1.3	0.9	0.9	0.6	1.1	0.9	0.9	0.6
Alta.	1.9	1.5	1.5	1.0	0.4	0.4	0.9	0.2	1.1	0.9	1.2	0.6	1.1	0.9	1.2	0.6
B.C.	0.6	0.8	0.7	1.1	0.4	0.2	-	0.4	0.5	0.5	0.3	0.7	0.5	0.5	0.3	0.7
Canada <sup>1</sup>	0.7	0.9	0.7	0.6	0.2	0.1	0.2	0.2	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.4



TABLE 1.4 (Continued)

HOSPITAL SEPARATIONS RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

DISEASES OF THE CIRCULATORY SYSTEM:

Province	Alcoholic Cardiomyopathy													
	Male					Female					Total			
	1984-85	1985-86	1986-87	1987-88		1984-85	1985-86	1986-87	1987-88		1984-85	1985-86	1986-87	1987-88
Nfld.	0.6	1.7	1.1	3.3	-	-	-	-	0.5	-	0.3	0.8	0.5	1.9
P.E.I.	-	-	-	2.3	-	-	-	-	-	-	-	-	-	1.1
N.S.	5.5	5.7	2.7	3.0	-	-	-	-	-	-	2.7	2.8	1.3	1.4
N.B.	3.9	2.1	2.1	2.9	0.4	-	-	-	-	-	2.1	1.0	1.0	1.4
Que.	1.2	1.9	1.8	1.6	-	-	-	-	0.1	-	0.6	1.0	0.9	0.8
Ont.	2.4	2.6	2.3	2.4	0.2	0.4	0.1	0.2	0.2	0.5	1.3	1.4	1.1	1.3
Man.	2.0	1.9	2.2	2.2	-	-	-	-	-	-	1.0	0.9	1.1	1.3
Sask.	2.1	1.8	2.4	1.8	-	0.3	0.3	-	-	-	1.0	1.0	1.3	0.9
Alta.	3.1	3.5	3.7	3.8	0.4	0.4	0.5	0.1	0.1	1.8	1.9	2.1	2.1	2.0
B.C.	4.4	5.7	3.8	4.1	0.7	0.2	0.4	0.4	0.4	2.5	2.9	2.0	2.0	2.2
Canada <sup>1</sup>	2.5	2.9	2.4	2.5	0.2	0.2	0.1	0.2	0.2	1.3	1.5	1.2	1.2	1.3

DISEASES OF THE DIGESTIVE SYSTEM:

Province	Alcoholic Gastritis													
	Male					Female					Total			
	1984-85	1985-86	1986-87	1987-88		1984-85	1985-86	1986-87	1987-88		1984-85	1985-86	1986-87	1987-88
Nfld.	20.9	20.2	15.6	11.6	1.1	0.5	2.2	1.1	1.1	10.9	10.3	8.8	6.2	6.2
P.E.I.	26.6	14.3	42.7	32.8	2.3	4.6	-	-	-	14.2	9.3	20.8	15.9	15.9
N.S.	24.4	25.0	22.4	30.4	3.6	5.4	4.1	5.9	5.9	13.7	14.9	13.0	17.8	17.8
N.B.	27.8	23.7	27.7	26.7	6.1	5.2	5.2	5.1	5.1	16.7	14.2	16.1	15.6	15.6
Que.	9.9	6.7	5.7	6.1	1.1	1.0	1.3	1.4	1.4	5.4	3.8	3.4	3.7	3.7
Ont.	15.3	13.7	14.2	13.6	3.5	3.6	3.5	3.4	3.4	9.2	8.5	8.7	8.4	8.4
Man.	15.8	15.0	13.7	16.6	7.7	5.0	8.8	9.0	9.0	11.6	9.8	11.2	12.7	12.7
Sask.	47.4	40.2	52.6	31.5	21.1	14.7	20.2	18.3	18.3	34.1	27.3	36.2	24.8	24.8
Alta.	37.7	42.4	37.3	37.6	15.1	13.6	16.6	13.0	13.0	26.5	28.0	26.9	25.3	25.3
B.C.	37.2	33.5	35.6	34.3	17.5	16.5	16.0	16.4	16.4	27.1	24.8	25.6	25.2	25.2
Canada <sup>1</sup>	20.6	18.7	18.8	18.0	6.4	5.8	6.4	6.1	6.1	13.3	12.1	12.4	11.9	11.9



TABLE 1.4 (Continued)

HOSPITAL SEPARATIONS RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

DISEASES OF THE DIGESTIVE SYSTEM (Cont'd):

Province	Alcohol-Related Chronic Liver Disease and Cirrhosis											
	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	20.9	23.0	19.5	18.2	2.8	7.1	8.1	2.7	11.8	15.0	13.7	10.3
P.E.I.	21.8	40.6	42.7	37.5	-	9.1	4.5	2.2	10.7	24.5	23.1	19.4
N.S.	28.8	36.2	41.1	38.3	14.9	12.1	10.7	10.9	21.6	23.8	25.4	24.2
N.B.	33.8	32.2	31.9	37.9	7.3	10.0	4.8	12.2	20.2	20.8	18.0	24.7
Que.	47.2	45.2	45.7	46.0	12.9	12.6	11.6	11.8	29.4	28.3	28.0	28.2
Ont.	47.2	46.0	47.5	48.0	18.0	16.4	17.5	18.0	32.1	30.7	32.0	32.5
Man.	43.4	40.0	45.6	32.7	21.5	23.3	22.2	20.7	32.1	31.4	33.6	26.5
Sask.	31.0	40.2	45.2	37.9	13.5	10.7	16.1	16.3	22.2	25.3	30.5	27.0
Alta.	37.6	45.8	35.8	33.8	23.0	24.0	23.7	17.6	30.3	34.9	29.7	25.7
B.C.	49.2	46.5	40.8	43.5	24.7	22.3	22.8	21.7	36.7	34.1	31.6	32.3
Canada <sup>1</sup>	44.0	44.0	43.6	43.2	17.0	16.2	16.4	16.0	30.1	29.7	29.6	29.2

Specified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol<sup>2</sup>

Province	Specified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol <sup>2</sup>											
	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	2.8	2.8	2.8	3.9	7.2	11.0	8.1	9.1	5.0	6.9	5.5	6.5
P.E.I.	7.3	9.5	2.4	7.0	4.6	4.6	2.3	2.2	5.9	7.0	2.3	4.6
N.S.	6.9	7.4	7.0	5.9	11.3	10.8	17.6	17.1	9.2	9.2	12.5	11.7
N.B.	3.9	3.4	8.0	5.4	8.5	10.4	9.9	4.7	6.3	7.0	9.0	5.1
Que.	6.0	6.9	6.3	6.2	9.2	8.9	9.6	9.0	7.7	7.9	8.0	7.6
Ont.	6.7	5.9	6.2	6.5	10.2	10.4	9.7	10.2	8.5	8.2	8.0	8.4
Man.	2.8	4.7	0.8	1.4	6.1	6.0	4.4	7.2	4.5	5.4	2.7	4.4
Sask.	6.3	3.8	3.5	6.5	8.5	8.4	10.7	16.6	7.4	6.1	7.1	11.6
Alta.	8.1	6.5	5.8	3.9	12.4	11.7	11.9	9.8	10.3	9.1	8.8	6.8
B.C.	3.8	2.9	5.2	3.2	9.7	8.6	9.6	8.6	6.8	5.8	7.4	5.9
Canada <sup>1</sup>	5.9	5.6	5.7	5.5	9.7	9.6	9.9	9.8	7.9	7.7	7.8	7.7

TABLE 1.4 (Continued)

HOSPITAL SEPARATIONS RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

DISEASES OF THE DIGESTIVE SYSTEM (Cont'd):

Province	Unspecified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol <sup>2</sup>						Total					
	Male			Female								
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	7.3	10.6	6.7	8.3	4.4	9.3	11.9	6.9	5.9	10.0	9.3	7.6
P.E.I.	7.3	7.2	19.0	11.7	20.9	9.1	13.5	24.4	14.2	8.2	16.2	18.2
N.S.	16.5	12.5	12.4	13.5	13.3	11.5	15.7	13.3	14.8	12.0	14.1	13.4
N.B.	13.7	14.8	12.6	11.2	7.7	7.2	6.8	12.2	10.6	10.9	9.6	11.7
Que.	14.1	13.1	17.0	14.5	12.7	10.9	12.4	12.4	13.4	11.9	14.6	13.4
Ont.	11.4	9.0	9.6	9.2	9.3	9.2	9.1	8.8	10.3	9.1	9.3	9.0
Man.	12.4	8.6	6.9	6.0	7.7	5.8	8.0	9.0	10.0	7.1	7.5	7.5
Sask.	19.7	19.5	18.3	12.4	6.7	8.7	11.2	12.3	13.2	14.0	14.7	12.3
Alta.	7.4	8.8	6.4	4.9	9.4	8.1	7.4	8.4	8.4	8.5	6.9	6.7
B.C.	6.7	5.5	7.3	7.2	5.4	8.1	7.5	8.4	6.0	6.8	7.4	7.8
Canada <sup>1</sup>	11.7	10.3	11.3	10.1	9.6	9.3	9.9	10.1	10.6	9.8	10.6	10.1

Province	Portal Hypertension						Total					
	Male			Female								
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	-	1.1	1.1	1.1	1.1	-	1.6	-	0.6	0.6	1.4	0.5
P.E.I.	-	2.4	-	-	-	-	-	-	-	1.2	-	-
N.S.	1.4	2.4	1.7	2.0	3.6	0.6	1.3	1.2	2.5	1.5	1.5	1.6
N.B.	0.4	2.5	2.9	3.3	0.8	1.2	0.4	0.4	0.6	1.9	1.6	1.8
Que.	1.1	0.6	0.7	0.3	0.6	0.4	0.3	0.7	0.8	0.5	0.5	0.5
Ont.	1.0	0.7	0.9	0.7	0.4	0.6	0.6	0.4	0.7	0.6	0.7	0.5
Man.	1.4	0.6	1.4	2.5	1.3	0.5	0.8	1.8	1.4	0.5	1.1	2.1
Sask.	0.3	0.3	0.9	0.9	0.9	0.9	-	0.6	0.6	0.6	0.4	0.7
Alta.	1.0	1.1	1.7	0.9	1.1	1.6	1.2	1.2	1.1	1.4	1.5	1.0
B.C.	2.4	1.1	0.8	1.3	0.3	0.8	0.4	1.0	1.3	0.9	0.6	1.2
Canada <sup>1</sup>	1.1	0.9	1.0	0.9	0.7	0.6	0.6	0.7	0.9	0.8	0.8	0.8

TABLE 1.4 (Continued)

HOSPITAL SEPARATIONS RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

INJURY AND POISONING:

Province	Toxic Effects of Alcohol															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	8.5	9.5	7.2	3.9	3.3	2.7	3.8	0.5	5.9	6.1	5.5	2.2	5.9	6.1	5.5	2.2
P.E.I.	7.3	2.4	11.8	7.0	2.3	4.6	6.8	-	4.7	3.5	9.2	3.4	4.7	3.5	9.2	3.4
N.S.	8.2	4.4	7.7	5.9	1.9	3.8	1.9	3.1	5.0	4.1	4.7	4.5	5.0	4.1	4.7	4.5
N.B.	8.1	5.5	8.0	6.7	4.5	2.0	2.0	5.1	6.3	3.7	4.9	5.9	6.3	3.7	4.9	5.9
Que.	3.2	2.9	2.9	2.8	1.9	1.5	1.5	1.6	2.5	2.2	2.2	2.2	2.5	2.2	2.2	2.2
Ont.	7.7	6.4	5.6	6.9	5.0	4.5	4.2	3.9	6.3	5.4	4.9	5.4	6.3	5.4	4.9	5.4
Man.	5.6	4.2	5.2	3.8	3.4	4.2	3.1	3.8	4.5	4.2	4.1	3.8	4.5	4.2	4.1	3.8
Sask.	17.0	16.3	11.8	12.6	8.5	12.7	11.8	8.6	12.7	14.5	11.8	10.6	12.7	14.5	11.8	10.6
Alta.	13.1	14.8	11.9	11.8	8.0	9.1	10.0	7.8	10.6	12.0	10.9	9.8	10.6	12.0	10.9	9.8
B.C.	9.6	9.4	10.8	11.2	7.3	8.7	7.7	6.0	8.4	9.0	9.2	8.6	8.4	9.0	9.2	8.6
Canada <sup>1</sup>	7.6	6.8	6.5	6.8	4.6	4.7	4.5	4.0	6.0	5.8	5.5	5.3	6.0	5.8	5.5	5.3

OTHER:

Province	Excessive Blood Level of Alcohol											
	Male			Female			Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Canada <sup>1</sup>	-	-	-	-	-	-	-	-	-	-	-	-

Province	Alcoholic Pellagra											
	Male			Female			Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Canada <sup>1</sup>	-	-	-	-	-	-	-	-	-	-	-	-

Province	Suspected Damage to the Fetus from Maternal Alcohol Addiction, Listeriosis or Toxoplasmosis											
	Male			Female			Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Canada <sup>1</sup>	-	-	-	-	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1



TABLE I.4 (Concluded)

HOSPITAL SEPARATIONS RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

OTHER (Cont'd):

	Noxious Influences Transmitted Via Placenta or Breast Milk											
	Male			Female			Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Canada <sup>1</sup>	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.1

TOTAL ALL CAUSES:

Province	Total Alcohol <sup>3</sup>											
	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	255.4	304.8	249.0	296.0	68.8	75.1	77.5	68.4	161.3	188.7	162.1	180.4
P.E.I.	711.9	794.7	895.7	808.0	97.4	157.5	139.6	139.7	398.1	469.1	508.1	464.7
N.S.	341.0	332.8	308.6	337.5	90.6	83.8	93.7	96.8	212.1	204.5	197.9	213.4
N.B.	328.6	310.5	331.1	308.6	67.2	76.7	68.8	84.5	194.5	190.5	196.3	193.4
Que.	298.6	271.9	254.7	249.0	85.6	75.8	76.3	78.2	188.3	170.2	162.2	160.4
Ont.	287.5	272.1	287.0	278.9	114.8	107.3	111.0	111.7	198.2	186.8	195.9	192.5
Man.	363.5	341.7	324.1	316.1	142.0	143.5	136.2	143.7	244.5	239.5	227.2	227.3
Sask.	502.2	500.1	508.7	475.9	209.8	203.0	212.6	213.2	354.6	349.9	358.9	342.9
Alta.	505.8	541.9	512.6	327.9	241.6	252.7	255.4	149.1	374.6	397.7	393.9	238.3
B.C.	310.7	295.2	314.3	305.2	141.2	138.7	152.9	149.1	224.2	215.3	231.7	225.3
Canada <sup>1, 3</sup>	328.1	317.1	316.0	292.7	122.5	118.1	121.6	113.3	222.6	214.8	216.0	200.4
Canada <sup>1, 4</sup>	328.3	317.3	316.2	292.8	122.9	118.5	121.9	113.6	222.8	215.1	216.2	200.6

Notes: See corresponding notes, Table I.2.

Sources: Data were obtained from the Canadian Centre for Health Information, Statistics Canada.



TABLE I.5

HOSPITAL SEPARATIONS FOR ALCOHOL-RELATED CASES BY AGE AND SEX,  
CANADA<sup>1</sup>, 1984-85 TO 1987-88

MENTAL DISORDERS:

Age	Alcoholic Psychoses						Total			
	Male			Female						
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86		1986-87	1987-88	
0-4	-	1	1	2	2	-	-	1	1	2
5-14	26	22	13	16	13	15	9	39	37	25
15-19	87	97	84	72	39	52	48	126	149	132
20-24	591	628	601	565	188	164	208	779	792	809
25-34	856	964	989	1,047	264	267	275	1,120	1,231	1,264
35-44	1,861	1,789	1,770	1,703	487	473	434	2,348	2,262	2,204
45-64	521	481	534	545	144	130	159	665	611	693
65-74	121	139	146	192	43	42	49	164	181	195
75 and Over	4,063	4,121	4,138	4,142	1,180	1,143	1,182	5,243	5,264	5,320
Total <sup>1</sup>										

Age	Alcohol Dependence Syndrome						Total			
	Male			Female						
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86		1986-87	1987-88	
0-4	-	22	37	20	24	31	36	13	-	53
5-14	27	187	202	179	88	110	140	107	275	312
15-19	605	611	616	462	241	213	300	214	846	824
20-24	2,545	2,631	2,552	2,191	865	926	927	788	3,410	3,557
25-34	3,481	3,321	3,421	3,018	1,158	1,113	1,115	911	4,639	4,434
35-44	5,683	5,261	5,251	4,764	1,686	1,575	1,632	1,433	7,369	6,883
45-64	1,301	1,276	1,284	1,203	318	350	356	399	1,619	1,626
65-74	284	324	336	359	73	88	105	121	357	441
75 and over	14,113	13,648	13,709	12,197	4,453	4,406	4,611	3,986	18,566	18,054
Total <sup>1</sup>										

TABLE I.5 (Continued)

HOSPITAL SEPARATIONS FOR ALCOHOL-RELATED CASES BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

MENTAL DISORDERS (Cont'd):

Age	Nondependent Abuse of Alcohol															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	1	1	3	1	1	1	1	1	1	1	1	4	2	1	3	5
5-14	142	145	153	144	122	128	129	150	128	129	150	253	264	273	282	294
15-19	305	318	347	360	217	173	245	253	173	173	245	253	522	491	592	613
20-24	184	189	214	193	86	89	99	93	89	89	99	93	270	278	313	286
25-34	322	354	339	334	197	174	191	201	174	174	191	201	519	528	530	535
35-44	302	317	324	299	149	148	153	161	148	148	153	161	451	465	477	460
45-64	446	432	441	428	219	236	189	212	236	189	212	212	665	668	630	640
65-74	126	117	127	136	52	36	45	57	36	36	45	57	178	153	172	193
75 and over	39	54	56	63	23	22	22	22	22	22	22	22	62	76	78	85
Total <sup>1</sup>	1,867	1,927	2,004	1,958	1,066	1,006	1,073	1,153	1,066	1,006	1,073	1,153	2,933	2,933	3,077	3,111

DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS:

Age	Alcoholic Polyneuropathy															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5-14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20-24	-	1	-	1	-	-	-	-	-	-	-	-	-	1	-	1
25-34	5	3	2	5	2	-	2	-	-	2	-	-	7	3	4	5
35-44	5	7	6	5	4	3	4	3	3	4	4	3	9	10	10	8
45-64	31	35	31	19	9	5	4	4	5	4	4	8	40	40	35	27
65-74	16	23	17	16	5	5	2	3	5	2	2	3	21	28	19	19
75 and over	3	9	7	9	-	-	4	1	-	4	4	1	3	9	11	10
Total <sup>1</sup>	60	78	63	55	20	13	16	15	20	13	16	15	80	91	79	70

TABLE I.5 (Continued)

HOSPITAL SEPARATIONS FOR ALCOHOL-RELATED CASES BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

DISEASES OF THE CIRCULATORY SYSTEM:

Age	Male			Female			Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	-	-	-	-	-	-	-	-	-	-	-	-
5-14	-	-	-	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-	-	-	-
20-24	1	3	1	-	-	-	-	-	1	3	1	-
25-34	8	11	6	14	1	2	1	1	9	13	7	15
35-44	25	34	24	25	6	5	-	1	31	39	24	26
45-64	124	140	130	145	6	8	7	10	130	148	137	155
65-74	48	50	38	32	3	5	3	6	51	55	41	38
75 and over	4	9	13	10	1	-	2	-	5	9	15	10
Total <sup>1</sup>	210	248	212	226	17	20	13	18	227	268	225	244

DISEASES OF THE DIGESTIVE SYSTEM:

Age	Male			Female			Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	1	3	2	-	-	2	-	2	1	5	2	2
5-14	4	3	2	3	5	2	3	5	9	5	5	8
15-19	35	36	39	36	24	14	19	19	59	50	58	55
20-24	121	134	103	90	39	34	40	30	160	168	143	120
25-34	326	316	316	301	99	97	124	121	425	413	440	422
35-44	363	359	364	372	143	139	129	103	506	498	493	475
45-64	684	571	616	598	194	189	215	223	878	760	831	821
65-74	176	162	164	160	51	37	45	47	227	199	209	207
75 and over	55	40	50	49	19	18	18	24	74	58	68	73
Total <sup>1</sup>	1,765	1,624	1,656	1,609	574	532	593	574	2,339	2,156	2,249	2,183



TABLE I.5 (Continued)

HOSPITAL SEPARATIONS FOR ALCOHOL-RELATED CASES BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

DISEASES OF THE DIGESTIVE SYSTEM (Cont'd):

Age	Alcohol-Related Chronic Liver Disease and Cirrhosis															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5-14	3	6	1	2	5	-	1	-	-	-	-	-	8	6	2	-
15-19	15	9	11	8	10	12	5	5	25	21	16	13	25	21	16	2
20-24	170	166	161	193	91	89	106	97	261	255	267	290	784	761	779	772
25-34	550	524	511	519	234	237	268	253	884	831	806	822	3,029	3,015	3,037	3,010
35-44	2,145	2,184	2,231	2,188	884	831	806	822	257	256	271	261	990	996	1,021	999
45-64	733	740	750	738	257	256	271	261	55	64	69	75	202	257	239	286
65-74	147	193	170	211	55	64	69	75	1,536	1,489	1,526	1,513	5,299	5,311	5,361	5,372
75 and over	3,763	3,822	3,835	3,859	1,536	1,489	1,526	1,513								
Total <sup>1</sup>																

Age	Specified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol <sup>2</sup>															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	19	16	8	11	11	5	6	8	30	21	14	19	31	35	23	40
5-14	15	15	13	15	16	20	10	25	19	19	23	29	25	29	23	29
15-19	18	16	6	10	7	13	17	19	14	14	16	14	51	38	34	41
20-24	24	14	18	27	27	24	16	14	92	92	71	153	176	180	157	157
25-34	75	84	88	86	78	92	92	71	111	117	109	106	222	205	195	189
35-44	111	88	86	83	111	117	109	106	383	374	408	412	543	533	591	572
45-64	160	159	183	160	154	166	168	207	92	74	93	63	217	226	231	269
65-74	63	60	63	62	92	74	93	63	879	885	919	925	1,388	1,373	1,421	1,413
75 and over	24	36	37	34	34	34	34	34								
Total <sup>1</sup>	509	488	502	488	879	885	919	925								



TABLE I.5 (Continued)

HOSPITAL SEPARATIONS FOR ALCOHOL-RELATED CASES BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

DISEASES OF THE DIGESTIVE SYSTEM (Cont'd):

Age	Unspecified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol <sup>2</sup>						Total									
	Male			Female			Male			Female						
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	7	-	4	10	6	5	2	5	13	5	6	15	13	5	6	15
5-14	12	19	16	12	17	9	10	18	29	28	26	30	29	28	26	30
15-19	1	9	6	4	1	7	11	2	2	2	17	6	2	16	17	6
20-24	9	4	8	4	8	6	4	7	17	10	12	11	17	10	12	11
25-34	34	26	35	21	27	24	20	22	61	50	55	43	61	50	55	43
35-44	83	74	85	76	41	33	56	52	124	107	141	128	124	107	141	128
45-64	478	391	440	393	321	330	340	301	799	721	780	701	799	721	780	701
65-74	245	236	239	244	284	278	288	301	529	514	527	545	529	514	527	545
75 and over	129	135	163	139	163	159	190	236	292	294	353	375	292	294	353	375
Total <sup>1</sup>	998	894	996	903	868	851	921	951	1,866	1,745	1,917	1,854	1,866	1,745	1,917	1,854

Age	Portal Hypertension						Total									
	Male			Female			Male			Female						
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	-	-	1	1	2	4	2	4	2	4	4	5	2	4	3	5
5-14	10	9	9	2	7	8	4	12	7	8	4	13	17	17	13	14
15-19	6	6	4	1	-	2	2	1	6	2	8	6	6	8	6	2
20-24	1	1	2	5	1	2	-	1	2	2	3	2	2	3	2	6
25-34	7	1	3	4	8	1	4	5	15	2	7	9	15	2	7	9
35-44	12	12	8	3	2	3	3	3	14	15	11	6	14	15	11	6
45-64	35	36	45	40	24	19	17	26	59	55	62	66	59	55	62	66
65-74	19	6	12	16	12	10	7	5	31	16	19	21	31	16	19	21
75 and over	8	4	7	7	5	10	13	8	13	14	20	15	13	14	20	15
Total <sup>1</sup>	98	75	91	79	61	59	52	65	159	134	143	144	159	134	143	144

TABLE I.5 (Continued)

HOSPITAL SEPARATIONS FOR ALCOHOL-RELATED CASES BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

INJURY AND POISONING:

Age	Toxic Effects of Alcohol											
	Male			Female			Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	93	67	68	71	52	55	43	44	145	122	111	115
5-14	65	61	45	43	41	58	49	43	106	119	94	86
15-19	103	82	83	83	79	78	77	74	182	160	160	157
20-24	59	54	52	52	39	29	40	28	98	83	92	80
25-34	110	110	123	116	70	84	63	55	180	194	186	171
35-44	87	102	81	90	57	53	67	57	144	155	148	147
45-64	112	96	91	127	68	57	64	60	180	153	155	187
65-74	15	16	20	14	8	16	8	11	23	32	28	25
75 and over	3	4	9	7	2	6	8	4	5	10	17	11
Total <sup>1</sup>	647	592	572	603	416	436	419	376	1,063	1,028	991	979

OTHER:

Total <sup>1</sup>	Excessive Blood Level of Alcohol							
	Male			Female				
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
	1	4	4	1	1	4	4	1
Total <sup>1</sup>	1	4	4	1	1	4	4	1

Total <sup>1</sup>	Alcoholic Pellagra							
	Male			Female				
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
	1	1	1	1	1	1	2	2
Total <sup>1</sup>	1	1	1	1	1	1	2	3

Suspected Damage to the Fetus from Maternal Alcohol Addiction, Listeriosis or Toxoplasmosis

Total <sup>1</sup>	Suspected Damage to the Fetus from Maternal Alcohol Addiction, Listeriosis or Toxoplasmosis							
	Male			Female				
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
	1	1	1	1	1	1	1	1
Total <sup>1</sup>	1	1	1	1	1	1	1	1

TABLE I.5 (Concluded)

HOSPITAL SEPARATIONS FOR ALCOHOL-RELATED CASES BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

OTHER (Cont'd):

Total <sup>1</sup>	Noxious Influences Transmitted Via Placenta or Breast Milk												
	Male						Female						Total
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	
	15	12	9	7	13	17	8	13	28	29	17	20	

TOTAL ALL CAUSES:

Age	Total Alcohol <sup>3</sup>												
	Male						Female						Total
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	
0-4	121	88	91	95	72	71	53	67	193	159	144	162	
5-14	275	275	276	241	234	256	241	266	509	531	517	507	
15-19	684	697	706	691	434	412	521	484	1,118	1,109	1,227	1,175	
20-24	1,106	1,117	1,109	914	490	461	552	430	1,596	1,578	1,661	1,344	
25-34	4,193	4,330	4,226	3,830	1,626	1,653	1,738	1,556	5,819	5,983	5,964	5,386	
35-44	5,875	5,802	5,899	5,537	2,169	2,118	2,179	1,901	8,044	7,920	8,078	7,438	
45-64	11,759	11,094	11,229	10,565	4,281	4,097	4,116	3,925	16,040	15,191	15,345	14,490	
65-74	3,263	3,167	3,248	3,166	1,288	1,289	1,352	1,474	4,551	4,456	4,600	4,640	
75 and over	817	947	994	1,080	476	483	573	614	1,293	1,430	1,567	1,694	
Total <sup>1,3</sup>	28,093	27,517	27,778	26,119	11,070	10,840	11,325	10,717	39,163	38,357	39,103	36,836	
Total <sup>1,4</sup>	28,108	27,531	27,791	26,128	11,106	10,880	11,351	10,744	39,214	38,411	39,142	36,872	

Notes: See corresponding notes, Table I.2.

Sources: Data were obtained from the Canadian Centre for Health Information, Statistics Canada.



TABLE I.6

AGE- AND SEX-SPECIFIC HOSPITAL SEPARATION RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION, CANADA<sup>1</sup>, 1984-85 TO 1987-88

MENTAL DISORDERS:

Age	Alcoholic Psychoses									
	Male			Female						
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	Total	
0-4	-	-	-	-	0.1	-	-	-	0.1	-
5-14	-	0.1	0.1	0.1	1.6	-	-	-	1.9	1.1
15-19	2.5	2.2	1.3	1.6	1.0	1.0	1.0	1.0	6.4	5.8
20-24	7.3	8.3	7.4	6.5	3.3	4.5	4.3	3.5	17.7	17.8
25-34	27.0	28.3	26.7	24.7	8.5	7.3	9.1	8.4	33.0	34.9
35-44	50.2	54.6	54.2	55.6	15.6	15.2	15.1	13.3	48.9	46.8
45-64	78.8	75.2	73.7	70.1	19.9	19.2	17.5	16.5	42.7	38.1
65-74	74.2	66.8	72.2	71.5	16.8	14.7	17.4	18.8	16.8	17.9
75 and Over	32.6	36.3	37.0	47.0	7.1	6.7	7.5	8.8	21.0	20.9
Total <sup>1</sup>	32.9	33.2	33.1	32.8	9.3	9.0	9.2	8.8	21.0	20.9

Age	Alcohol Dependence Syndrome									
	Male			Female						
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	Total	
0-4	-	-	-	-	-	-	-	-	-	-
5-14	1.5	1.2	2.0	1.1	1.4	1.8	2.1	0.7	1.4	1.5
15-19	18.1	20.2	20.9	18.3	8.9	11.5	14.9	11.5	13.6	16.0
20-24	51.0	52.2	54.3	41.8	20.5	18.4	26.7	19.7	35.8	35.4
25-34	116.2	118.5	113.3	95.6	39.1	41.2	40.6	34.0	77.5	79.6
35-44	204.1	188.0	187.6	160.3	68.4	63.3	61.2	48.3	136.5	125.8
45-64	240.6	221.1	218.5	196.0	69.0	64.1	65.9	57.4	153.4	141.3
65-74	185.4	177.2	173.6	157.8	37.2	39.6	39.0	42.3	103.9	101.4
75 and over	76.5	84.5	85.1	87.8	12.0	14.0	16.1	17.8	36.5	40.6
Total <sup>1</sup>	114.3	109.8	109.6	96.5	35.3	34.6	35.9	30.7	74.3	71.7



TABLE I.6 (Continued)

AGE- AND SEX-SPECIFIC HOSPITAL SEPARATION RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION, CANADA<sup>1</sup>, 1984-85 TO 1987-88

MENTAL DISORDERS (Cont'd):

Age	Nondependent Abuse of Alcohol															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	0.1	0.1	0.3	0.1	0.1	-	-	0.4	0.1	-	-	0.4	0.1	0.1	0.2	0.3
5-14	7.6	7.8	8.3	7.8	6.9	7.3	7.4	8.6	6.9	7.3	7.4	8.6	7.3	7.6	7.8	8.2
15-19	29.6	31.9	35.1	36.7	21.9	18.1	26.0	27.2	21.9	18.1	26.0	27.2	25.8	25.2	30.7	32.1
20-24	15.5	16.1	18.9	17.5	7.3	7.7	8.8	8.5	7.3	7.7	8.8	8.5	11.4	11.9	13.9	13.0
25-34	14.7	15.9	15.1	14.6	8.9	7.7	8.4	8.7	8.9	7.7	8.4	8.7	11.8	11.8	11.7	11.6
35-44	17.7	17.9	17.8	15.9	8.8	8.4	8.4	8.5	8.8	8.4	8.4	8.5	13.3	13.2	13.1	12.2
45-64	18.9	18.2	18.4	17.6	9.0	9.6	7.6	8.5	9.0	9.6	7.6	8.5	13.8	13.8	12.9	13.0
65-74	18.0	16.3	17.2	17.8	6.1	4.1	4.9	6.0	6.1	4.1	4.9	6.0	11.4	9.5	10.4	11.3
75 and over	10.5	14.1	14.2	15.4	3.8	3.5	3.4	3.2	3.8	3.5	3.4	3.2	6.3	7.5	7.4	7.8
Total <sup>1</sup>	15.1	15.5	16.0	15.5	8.4	7.9	8.4	8.9	8.4	7.9	8.4	8.9	11.7	11.7	12.1	12.1

DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS:

Age	Alcoholic Polyneuropathy															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5-14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20-24	-	0.1	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-
25-34	0.2	0.1	0.1	0.2	0.1	-	0.1	0.2	0.1	-	0.1	0.2	0.2	0.1	0.1	0.1
35-44	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2
45-64	1.3	1.5	1.3	0.8	0.4	0.2	0.2	0.3	0.4	0.2	0.2	0.3	0.8	0.8	0.7	0.5
65-74	2.3	3.2	2.3	2.1	0.6	0.6	0.2	0.3	0.6	0.6	0.2	0.3	1.3	1.7	1.2	1.1
75 and over	0.8	2.3	1.8	2.2	-	-	0.6	0.1	-	-	0.6	0.1	0.3	0.9	1.0	0.9
Total <sup>1</sup>	0.5	0.6	0.5	0.4	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.3	0.4	0.3	0.3

TABLE I.6 (Continued)

AGE- AND SEX-SPECIFIC HOSPITAL SEPARATION RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION, CANADA<sup>1</sup>, 1984-85 TO 1987-88

DISEASES OF THE CIRCULATORY SYSTEM:

Age	Alcoholic Cardiomyopathy													
	Male					Female					Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86		1986-87	1987-88	
0-4	-	0.1	-	-	-	-	-	-	-	-	-	-	0.1	-
5-14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20-24	0.1	0.3	0.1	-	-	-	-	-	-	-	-	-	0.1	-
25-34	0.4	0.5	0.3	0.6	-	0.1	-	-	-	0.2	0.3	0.2	0.3	0.3
35-44	1.5	1.9	1.3	1.3	0.4	0.3	-	0.1	-	0.9	1.1	0.7	0.7	0.7
45-64	5.2	5.9	5.4	6.0	0.2	0.3	0.3	0.4	0.1	2.7	3.1	2.8	3.1	3.1
65-74	6.8	6.9	5.1	4.2	0.4	0.6	0.3	0.6	0.6	3.3	3.4	2.5	2.2	2.2
75 and over	1.1	2.3	3.3	2.4	0.2	0.2	0.3	0.3	-	0.5	0.9	1.4	0.9	0.9
Total <sup>1</sup>	1.7	2.0	1.7	1.8	0.1	0.2	0.1	0.1	0.1	0.9	1.1	0.9	1.0	1.0

DISEASES OF THE DIGESTIVE SYSTEM:

Age	Alcoholic Gastritis													
	Male					Female					Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86		1986-87	1987-88	
0-4	0.1	0.3	0.2	-	-	0.2	-	0.2	0.2	0.1	0.3	0.1	0.1	0.1
5-14	0.2	0.2	0.1	0.2	0.3	0.1	0.2	0.2	0.3	0.2	0.1	0.1	0.2	0.2
15-19	3.4	3.6	3.9	3.7	2.4	1.5	2.0	2.0	2.0	2.9	2.6	3.0	2.9	2.9
20-24	10.2	11.4	9.1	8.1	3.3	2.9	3.6	2.8	2.8	6.8	7.2	6.3	5.5	5.5
25-34	14.9	14.2	14.0	13.1	4.5	4.3	5.4	5.2	5.2	9.7	9.2	9.7	9.2	9.2
35-44	21.3	20.3	20.0	19.8	8.5	7.9	7.1	5.5	5.5	14.9	14.1	13.5	12.6	12.6
45-64	29.0	24.0	25.6	24.6	7.9	7.7	8.7	8.9	8.9	18.3	15.7	17.0	16.7	16.7
65-74	25.1	22.5	22.2	21.0	6.0	4.2	4.9	5.0	5.0	14.6	12.4	12.7	12.1	12.1
75 and over	14.8	10.4	12.7	12.0	3.1	2.9	2.8	3.5	3.5	7.6	5.7	6.5	6.7	6.7
Total <sup>1</sup>	14.3	13.1	13.2	12.7	4.5	4.2	4.6	4.4	4.4	9.4	8.6	8.9	8.5	8.5

TABLE I.6 (Continued)

AGE- AND SEX-SPECIFIC HOSPITAL SEPARATION RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION, CANADA<sup>1</sup>, 1984-85 TO 1987-88

DISEASES OF THE DIGESTIVE SYSTEM (Cont'd):

Age	Alcohol-Related Chronic Liver Disease and Cirrhosis															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5-14	0.3	0.6	0.1	0.2	0.5	-	0.1	-	-	-	0.1	-	0.4	0.3	0.1	0.1
15-19	1.3	0.8	1.0	0.7	0.9	1.0	0.4	0.5	0.5	1.0	0.4	0.5	1.1	0.9	0.7	0.6
20-24	7.8	7.5	7.1	8.4	4.1	4.0	4.6	4.2	4.2	4.0	4.6	4.2	5.9	5.7	5.9	6.3
25-34	32.2	29.7	28.0	27.6	13.8	13.5	14.7	13.4	13.4	13.5	14.7	13.4	23.1	21.6	21.4	20.5
35-44	90.8	91.8	92.8	90.0	36.2	33.8	32.6	32.9	32.6	33.8	32.6	32.9	63.0	62.3	62.3	61.1
45-64	104.4	102.8	101.4	96.8	30.0	29.0	29.7	27.7	29.7	29.0	29.7	27.7	63.6	62.1	61.8	58.6
65-74	39.6	50.3	43.0	51.6	9.0	10.2	10.6	11.0	10.6	10.2	10.6	11.0	20.6	25.3	22.8	26.3
75 and over	30.5	30.8	30.7	30.5	12.2	11.7	11.9	11.7	11.9	11.7	11.9	11.7	21.2	21.1	21.1	21.0
Total <sup>1</sup>																

Specified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol<sup>2</sup>

Age	Specified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol <sup>2</sup>															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	2.0	1.7	0.9	1.2	1.2	0.6	0.7	0.9	0.9	0.6	0.7	0.9	1.6	1.1	0.8	1.0
5-14	0.8	0.8	0.7	0.8	0.9	1.1	0.6	1.4	1.4	1.1	0.6	1.4	0.9	1.0	0.6	1.1
15-19	1.7	1.6	0.6	1.0	0.7	1.4	1.8	2.0	2.0	1.4	1.8	2.0	1.2	1.5	1.2	1.5
20-24	2.0	1.2	1.6	2.4	2.3	2.1	1.4	1.3	1.4	2.1	1.4	1.3	2.2	1.6	1.5	1.9
25-34	3.4	3.8	3.9	3.8	3.5	4.1	4.0	3.1	4.0	4.1	4.0	3.1	3.5	3.9	4.0	3.4
35-44	6.5	5.0	4.7	4.4	6.6	6.7	6.0	5.6	6.0	6.7	6.0	5.6	6.5	5.8	5.4	5.0
45-64	6.8	6.7	7.6	6.6	15.7	15.2	16.5	16.5	16.5	15.2	16.5	16.5	11.3	11.0	12.1	11.6
65-74	9.0	8.3	8.5	8.1	18.0	18.8	18.4	22.0	18.4	18.8	18.4	22.0	13.9	14.1	14.0	15.8
75 and over	6.5	9.4	9.4	8.3	15.1	11.7	14.2	9.3	14.2	11.7	14.2	9.3	11.8	10.8	12.4	8.9
Total <sup>1</sup>	4.1	3.9	4.0	3.9	7.0	6.9	7.2	7.1	7.2	6.9	7.2	7.1	5.6	5.5	5.6	5.5



TABLE I.6 (Continued)

AGE- AND SEX-SPECIFIC HOSPITAL SEPARATION RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION, CANADA<sup>1</sup>, 1984-85 TO 1987-88

DISEASES OF THE DIGESTIVE SYSTEM (Cont'd):

Age	Unspecified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol <sup>2</sup>											
	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	0.7	-	0.4	1.1	0.7	0.6	0.2	0.6	0.7	0.3	0.3	0.8
5-14	0.6	1.0	0.9	0.7	1.0	0.5	0.6	1.0	0.8	0.8	0.7	0.8
15-19	0.1	0.9	0.6	0.4	0.1	0.7	1.2	0.2	0.1	0.8	0.9	0.3
20-24	0.8	0.3	0.7	0.4	0.7	0.5	0.4	0.6	0.7	0.4	0.5	0.5
25-34	1.6	1.2	1.6	0.9	1.2	1.1	0.9	0.9	1.4	1.1	1.2	0.9
35-44	4.9	4.2	4.7	4.0	2.4	1.9	3.1	2.8	3.6	3.0	3.9	3.4
45-64	20.2	16.4	18.3	16.2	13.1	13.4	13.7	12.3	16.6	14.9	16.0	14.2
65-74	34.9	32.8	32.3	32.0	33.2	31.5	31.6	31.9	34.0	32.1	31.9	32.0
75 and over	34.8	35.2	41.3	34.0	26.8	25.2	29.1	34.7	29.8	29.0	33.7	34.5
Total <sup>1</sup>	8.1	7.2	8.0	7.1	6.9	6.7	7.2	7.3	7.5	6.9	7.6	7.2

Portal Hypertension

Age	Portal Hypertension											
	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	-	-	0.1	0.1	0.2	0.4	0.2	0.4	0.1	0.2	0.2	0.3
5-14	0.5	0.5	0.5	0.1	0.4	0.5	0.2	0.7	0.5	0.5	0.4	0.4
15-19	0.6	0.6	0.4	0.1	-	0.2	0.2	0.1	0.3	0.4	0.3	0.1
20-24	0.1	0.1	0.2	0.5	0.1	0.2	-	0.1	0.1	0.1	0.1	0.3
25-34	0.3	..	0.1	0.2	0.4	..	0.2	0.2	0.3	..	0.2	0.2
35-44	0.7	0.7	0.4	0.2	0.1	0.2	0.2	0.2	0.4	0.4	0.3	0.2
45-64	1.5	1.5	1.9	1.6	1.0	0.8	0.7	1.0	1.2	1.1	1.3	1.3
65-74	2.7	0.8	1.6	2.1	1.4	1.1	0.8	0.5	2.0	1.0	1.2	1.2
75 and over	2.2	1.0	1.8	1.7	0.8	1.6	2.0	1.2	1.3	1.4	1.9	1.4
Total <sup>1</sup>	0.8	0.6	0.7	0.6	0.5	0.5	0.4	0.5	0.6	0.5	0.6	0.6



TABLE I.6 (Continued)

AGE- AND SEX-SPECIFIC HOSPITAL SEPARATION RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION, CANADA<sup>1</sup>, 1984-85 TO 1987-88

INJURY AND POISONING:

Age	Toxic Effects of Alcohol											
	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	9.9	7.2	7.3	7.6	5.8	6.2	4.9	4.9	7.9	6.7	6.1	6.3
5-14	3.5	3.3	2.4	2.3	2.3	3.3	2.8	2.5	2.9	3.3	2.6	2.4
15-19	10.0	8.2	8.4	8.5	8.0	8.2	8.2	7.9	9.0	8.2	8.3	8.2
20-24	5.0	4.6	4.6	4.7	3.3	2.5	3.6	2.6	4.2	3.6	4.1	3.6
25-34	5.0	5.0	5.5	5.1	3.2	3.7	2.8	2.4	4.1	4.3	4.1	3.7
35-44	5.1	5.8	4.4	4.8	3.4	3.0	3.7	3.0	4.2	4.4	4.1	3.9
45-64	4.7	4.0	3.8	5.2	2.8	2.3	2.6	2.4	3.7	3.2	3.2	3.8
65-74	2.1	2.2	2.7	1.8	0.9	1.8	0.9	1.2	1.5	2.0	1.7	1.5
75 and over	0.8	1.0	2.3	1.7	0.3	1.0	1.2	0.6	0.5	1.0	1.6	1.0
Total <sup>1</sup>	5.2	4.8	4.6	4.8	3.3	3.4	3.3	2.9	4.3	4.1	3.9	3.8

OTHER:

Total <sup>1</sup>	Excessive Blood Level of Alcohol					
	Male			Female		
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86
	..	..	..	..	..	..
Total <sup>1</sup>	..	..	..	..	..	..

Total <sup>1</sup>	Alcoholic Pellagra					
	Male			Female		
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86
	..	..	..	..	..	..
Total <sup>1</sup>	..	..	..	..	..	..

Total <sup>1</sup>	Suspected Damage to the Fetus from Maternal Alcohol Addiction, Listeriosis or Toxoplasmosis					
	Male			Female		
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86
	..	..	..	..	..	..
Total <sup>1</sup>	..	..	..	..	..	..

TABLE I.6 (Concluded)

AGE- AND SEX-SPECIFIC HOSPITAL SEPARATION RATES FOR ALCOHOL-RELATED CASES PER 100,000 POPULATION, CANADA<sup>1</sup>, 1984-85 TO 1987-88

OTHER (Continued):

	Noxious Influences Transmitted Via Placenta or Breast Milk										
	Male			Female			Total				
1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Total <sup>1</sup>	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TOTAL ALL CAUSES:

Age	Total Alcohol <sup>3</sup>											
	Male				Female				Total			
1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	
0-4	12.9	9.4	9.8	10.1	8.1	6.0	7.5	10.5	8.7	7.9	8.9	
5-14	14.8	14.8	15.0	13.1	13.3	13.8	15.2	14.0	14.7	14.4	14.1	
15-19	66.3	69.9	71.5	70.5	43.8	43.2	52.0	55.3	56.8	63.6	61.5	
20-24	93.2	95.4	97.8	82.8	41.7	39.8	49.1	39.5	67.6	67.7	73.6	
25-34	191.5	194.9	187.7	167.2	73.5	73.6	67.1	132.2	133.9	131.6	116.9	
35-44	344.5	328.5	323.4	294.0	128.2	120.5	100.9	236.8	224.8	221.6	197.4	
45-64	497.7	466.2	467.3	434.7	175.2	166.7	157.1	333.8	314.1	314.5	294.0	
65-74	464.9	439.9	439.1	415.3	150.5	145.9	156.4	292.2	277.9	278.5	272.2	
75 and over	220.1	247.0	251.7	264.3	78.3	76.6	90.4	132.1	141.0	149.5	155.7	
Total <sup>1,3</sup>	227.5	221.4	222.1	206.6	87.6	85.1	82.5	156.8	152.4	154.2	143.7	
Total <sup>1,4</sup>	227.6	221.5	222.2	206.7	87.9	85.4	82.7	157.0	152.6	154.4	143.9	

Notes: See corresponding notes, Table I.2.

Sources: Data were obtained from the Canadian Centre for Health Information, Statistics Canada.

**Chapter J** \_\_\_\_\_  
**DRUG-RELATED MORBIDITY IN CANADA**

## Chapter J

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# DRUG-RELATED MORBIDITY IN CANADA

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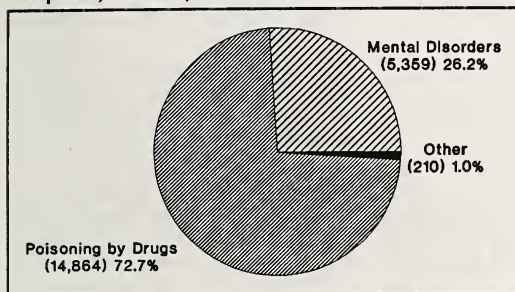
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## J. DRUG-RELATED MORBIDITY IN CANADA

### Highlights

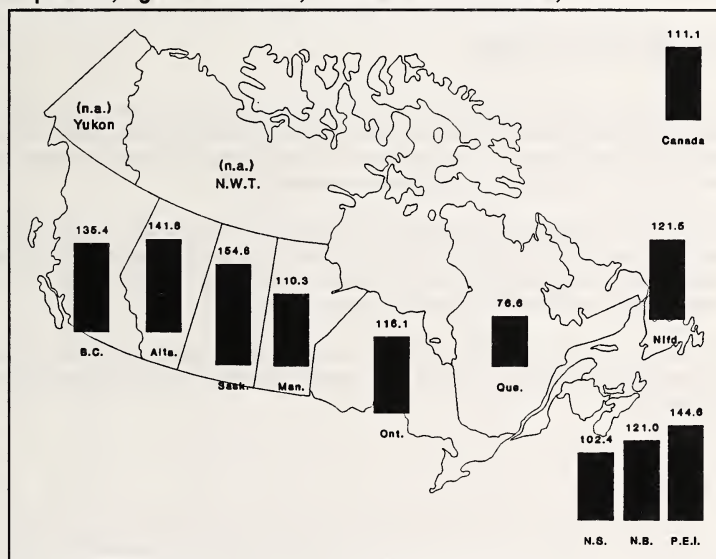
**Figure J.1**  
Total Drug-Related Separations From General Hospitals, Canada,<sup>1,2</sup> 1987-88



The total number of drug-related cases separated from general hospitals increased 3.7% to 20,433 in 1987-88 (Table J.1). Approximately 73% of these were for drug 'poisoning' and 26% for mental disorders' (Figure J.1, Table J.1). Other cases separated include complications of pregnancy, childbirth and the puerperium, as well as certain conditions originating in the perinatal period. Unlike alcohol-related morbidity, female cases usually out-numbered male cases for drug morbidity: in 1987-88, there were 1,972 female cases compared to 8,461 for male (Table J.1).

**Figure J.2**  
Total Drug-Related Separations From General Hospitals, Rates Per 100,000 Population, Aged 20 and Over, Canada<sup>1,2</sup> and Provinces, 1987-88

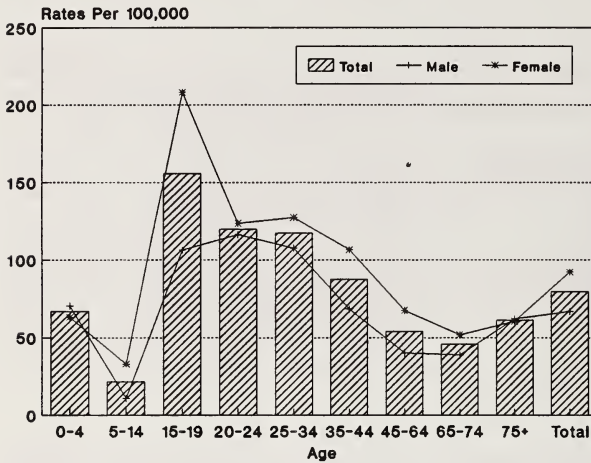
The morbidity rate per 100,000 population, aged 20 and over, was 2.0% higher than the previous year (Table J.3). Prince Edward Island and Ontario, with a rise of 13.1% and 11% in rates respectively, accounted for much of the total increase. Only three provinces recorded a lower rate than the national average of 111.1: Nova Scotia, Quebec, and Manitoba (Figure J.2, Table J.3). Newfoundland was the only province which has experienced a rate reduction in each year since 1984-85 (Table J.3).



<sup>1</sup> Included 6,152 cases of analgesics poisoning (such as opiates, salicylates, and other analgesics), 2,243 cases of sedatives and hypnotics (such as barbiturates, chloral hydrate group, methaqualone compounds and other sedatives), and 6,469 cases of psychotropic agents (such as antidepressants, phenothiazine tranquilizers, benzodiazepine tranquilizers, other tranquilizers, and other psychotropic agents).

<sup>2</sup> Included 1,024 cases for drug psychoses, 3,079 cases for drug dependence syndrome, and 1,256 cases for nondependent abuse of drugs.

**Figure J.3**  
**Drug-Related Separations from General Hospitals, Rates Per 100,000 Population, by Age and Sex, Canada,<sup>1,2</sup> 1987-88**



The rate per 100,000 total population also increased in 1987-88, largely due to increases in rates of those aged 15 to 44 (Table J.5). During the year, female morbidity rates continued to exceed the rates for male: 92.2 versus 66.9 (Table J.5). As Figure J.3 indicates, young people aged 15-19 were the highest risk among all age group for drug-related morbidity. For women, the same pattern was observed but for men, those aged 20-24 were the highest risk (Figure J.3, Table J.5). Based on available data, people who suffered from drug-related problems were generally younger than their counterparts with alcohol-related problems.

## Explanatory Notes

The statistics reported are derived from admission/discharge forms, which are completed by the medical records department of general hospitals, for each person. These forms record one continuous stay in hospital for each patient. A separations is defined as the discharge or death of an inpatient. Separations are grouped according to the province of hospitalization.

The data on separations are counts of cases and not patients, as an individual is counted on each occasion that they stay in the hospital. Only inpatient data on cases treated in general hospitals, including those treated in psychiatric units of general and allied special hospitals, are included. Excluded are cases treated as out-patients or as patients in mental hospitals.

The data are based upon the 9th Revision of the International Classification of Diseases (ICD-9) which was put into effect in Canada in 1979. For medical conditions included under each diagnostic category see Appendix B.

## **Reference**

Data were obtained from the Canadian Centre for Health Information, Statistics Canada.

TABLE J.1

HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY SEX,  
CANADA AND PROVINCES, 1984-85 TO 1987-88MENTAL DISORDERS:

Province	Drug Psychoses															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	14	17	7	8	7	6	13	14	21	23	20	22	21	23	20	22
P.E.I.	3	-	-	1	4	1	3	3	7	1	3	4	7	1	3	4
N.S.	10	8	17	13	16	12	16	11	26	20	33	24	26	20	33	24
N.B.	10	12	21	7	15	14	12	12	25	26	33	19	25	26	33	19
Que.	90	87	88	76	57	56	59	56	147	143	147	132	147	143	147	132
Ont.	187	156	139	180	140	134	109	158	327	290	248	338	327	290	248	338
Man.	35	22	32	23	34	24	37	40	69	46	69	63	69	46	69	63
Sask.	31	32	47	20	22	17	17	27	53	49	64	47	53	49	64	47
Alta.	105	65	108	96	80	98	82	84	185	163	190	180	185	163	190	180
B.C.	98	85	95	109	68	73	90	86	166	158	185	195	166	158	185	195
Canada <sup>1</sup>	583	484	554	533	443	435	438	491	1,026	919	992	1,024	1,026	919	992	1,024

Province	Drug Dependence															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	15	6	16	9	12	13	23	23	27	19	39	32	27	19	39	32
P.E.I.	4	5	5	6	4	6	10	10	8	11	15	16	8	11	15	16
N.S.	33	39	29	20	11	21	25	18	44	60	54	38	44	60	54	38
N.B.	11	10	2	8	10	9	13	12	21	19	15	20	21	19	15	20
Que.	671	711	760	885	445	474	532	559	1,116	1,185	1,292	1,444	1,116	1,185	1,292	1,444
Ont.	283	285	370	621	265	247	278	452	548	532	648	1,073	548	532	648	1,073
Man.	18	18	19	20	18	27	20	12	36	45	39	32	36	45	39	32
Sask.	31	44	63	52	25	34	39	47	56	78	102	99	56	78	102	99
Alta.	76	58	77	71	58	69	80	77	134	127	157	148	134	127	157	148
B.C.	51	65	66	80	81	60	59	97	132	125	125	177	132	125	125	177
Canada <sup>1</sup>	1,193	1,241	1,407	1,772	929	960	1,079	1,307	2,122	2,201	2,486	3,079	2,122	2,201	2,486	3,079



TABLE J.1 (Continued)

HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

MENTAL DISORDERS (Cont'd):

Province	Nondependent Abuse of Drugs <sup>2</sup>															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	8	12	15	8	14	18	8	12	22	30	23	20	22	30	23	20
P.E.I.	7	8	8	16	1	3	8	11	8	11	16	27	8	11	16	27
N.S.	14	18	17	23	12	14	15	17	26	32	32	40	26	32	32	40
N.B.	18	15	14	11	21	13	24	21	39	28	38	32	39	28	38	32
Que.	63	74	76	82	75	77	71	83	138	151	147	165	138	151	147	165
Ont.	269	286	320	280	274	279	268	296	543	565	588	576	543	565	588	576
Man.	43	48	47	40	38	38	49	38	81	86	96	78	81	86	96	78
Sask.	22	39	31	43	15	28	28	28	37	67	59	71	37	67	59	71
Alta.	101	82	103	50	51	78	88	62	152	160	191	112	152	160	191	112
B.C.	68	66	90	71	53	39	62	64	121	105	152	135	121	105	152	135
Canada <sup>1</sup>	613	648	721	624	554	587	621	632	1,167	1,235	1,342	1,256	1,167	1,235	1,342	1,256

COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM:

Province	Drug Dependence															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
P.E.I.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
N.S.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
N.B.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Que.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ont.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Man.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sask.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Alta.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
B.C.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Canada <sup>1</sup>	...	...	...	...	48	77	99	118	48	77	99	118	48	77	99	118

TABLE J.1 (Continued)

HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM (Cont'd):

Province	Suspected Damage to the Fetus from Drugs														
	Male					Female					Total				
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86		1986-87	1987-88		
Nfld.	...	...	...	...	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	...	...	...	...	-	-	-	-	-	-	-	-	-	-	-
N.S.	...	...	...	...	-	-	-	-	-	-	-	-	-	-	-
N.B.	...	...	...	...	-	-	-	-	-	-	-	-	-	-	-
Que.	...	...	...	...	-	2	-	1	-	-	-	-	2	-	1
Ont.	...	...	...	...	1	2	1	2	1	-	-	-	2	1	2
Man.	...	...	...	...	-	-	-	1	-	-	-	-	-	-	1
Sask.	...	...	...	...	-	-	-	-	-	-	-	-	-	-	-
Alta.	...	...	...	...	-	-	-	1	-	-	-	-	-	-	1
B.C.	...	...	...	...	1	-	4	2	-	-	-	-	1	-	4
Canada <sup>1</sup>	...	...	...	...	2	4	5	7	2	4	5	7	2	4	5

CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD:

Province	Drug Withdrawal Syndrome in Newborn														
	Male					Female					Total				
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86		1986-87	1987-88		
Nfld.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
N.B.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Que.	1	1	-	-	-	-	1	-	1	1	1	1	1	1	6
Ont.	1	1	-	4	-	-	-	2	1	1	1	1	1	1	1
Man.	-	-	-	-	-	-	1	-	-	-	-	-	2	1	1
Sask.	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Alta.	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
B.C.	22	24	42	31	34	17	16	44	56	41	58	75	56	41	58
Canada <sup>1</sup>	24	27	43	37	35	17	19	48	59	44	62	85	59	44	62

TABLE J.1 (Continued)

HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES:

Province	Analgesics, Antipyretics and Antirheumatics - Opiates and Related Narcotics															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	4	1	2	5	3	5	6	5	7	6	8	10	7	6	8	10
P.E.I.	1	1	-	2	1	1	1	1	2	1	1	3	2	2	1	3
N.S.	3	3	1	7	12	4	6	7	15	7	7	14	15	7	7	14
N.B.	1	5	2	5	5	3	5	6	6	5	8	7	6	8	7	11
Que.	21	19	14	17	19	16	21	24	40	35	35	41	127	127	111	129
Ont.	52	57	47	48	75	70	64	81	4	2	4	5	19	10	10	10
Man.	8	1	3	6	11	9	2	4	14	8	21	14	21	28	21	14
Sask.	7	6	7	6	14	22	14	8	27	37	56	75	54	75	54	78
Alta.	33	27	38	22	42	27	37	56	45	39	44	51	80	77	84	92
B.C.	35	38	40	41	45	39	44	51	227	196	200	243	392	354	354	402
Canada <sup>1</sup>	165	158	154	159	227	196	200	243	392	354	354	402	392	354	354	402

Province	Analgesics, Antipyretics and Antirheumatics - Salicylates															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	37	26	19	30	64	65	48	32	101	91	67	62	16	12	13	12
P.E.I.	8	4	4	4	8	8	9	8	111	90	71	68	111	90	71	68
N.S.	26	38	31	19	85	52	40	49	94	62	75	76	94	62	75	76
N.B.	40	22	26	28	54	40	49	48	537	417	366	363	537	417	366	363
Que.	208	149	138	117	329	268	228	246	1212	941	857	962	1212	941	857	962
Ont.	417	320	291	335	795	621	566	627	94	196	146	135	196	195	146	135
Man.	65	62	46	41	131	133	100	94	243	186	169	153	243	186	169	153
Sask.	79	62	61	47	164	124	108	106	459	394	343	231	459	394	343	231
Alta.	174	140	117	75	285	254	226	156	485	356	379	319	485	356	379	319
B.C.	166	119	111	102	319	237	268	217	3,454	2,744	2,486	2,381	3,454	2,744	2,486	2,381
Canada <sup>1</sup>	1,220	942	844	798	2,234	1,802	1,642	1,583	3,454	2,744	2,486	2,381	3,454	2,744	2,486	2,381



TABLE J.1 (Continued)

### HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

#### POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Province	Psychotropic Agents - Other Tranquillizers														
	Male					Female					Total				
	1984-85	1985-86	1986-87	1987-88		1984-85	1985-86	1986-87	1987-88		1984-85	1985-86	1986-87	1987-88	
Nfld.	8	2	13	12	10	15	12	17	17	17	18	17	25	29	17
P.E.I.	-	1	3	2	4	1	-	2	2	4	4	2	3	4	2
N.S.	15	14	11	10	16	15	12	12	10	12	31	29	23	22	31
N.B.	8	7	7	13	9	13	16	10	10	17	17	20	23	23	17
Que.	47	48	35	29	62	68	46	60	60	109	109	116	81	89	109
Ont.	85	100	98	93	124	112	129	163	163	209	209	212	227	256	209
Man.	1	2	5	8	4	7	4	9	9	5	5	9	9	17	5
Sask.	18	22	11	12	28	23	32	17	17	46	46	45	43	29	46
Alta.	14	13	14	12	25	27	24	22	22	39	39	40	38	34	39
B.C.	33	26	27	27	52	40	53	37	37	85	85	66	80	64	85
Canada <sup>1</sup>	229	235	224	218	334	321	328	349	349	563	563	556	552	567	563

Province	Psychotropic Agents - Other														
	Male					Female					Total				
	1984-85	1985-86	1986-87	1987-88		1984-85	1985-86	1986-87	1987-88		1984-85	1985-86	1986-87	1987-88	
Nfld.	4	7	5	3	3	4	3	3	2	2	7	11	8	5	7
P.E.I.	1	1	-	1	1	1	1	2	2	2	2	2	1	3	2
N.S.	11	4	11	7	7	12	6	5	5	18	18	16	17	12	18
N.B.	11	7	4	7	6	6	3	2	2	17	17	13	7	9	17
Que.	27	33	30	24	27	29	31	47	47	54	54	62	61	71	54
Ont.	102	90	95	88	74	97	103	87	87	176	176	187	198	175	176
Man.	10	5	4	2	2	3	4	6	6	12	12	8	8	8	12
Sask.	5	10	24	8	5	10	8	10	10	10	10	20	32	18	10
Alta.	32	36	26	24	30	23	35	25	25	62	62	59	61	49	62
B.C.	40	23	30	36	25	27	30	32	32	65	65	50	60	68	65
Canada <sup>1</sup>	243	216	229	200	190	212	224	218	218	423	423	428	453	418	423



TABLE J.1 (Continued)

HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Province	Psychotropic Agents - Phenothiazine Tranquillizers															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	5	6	5	6	9	5	5	3	14	11	5	9	14	11	5	9
P.E.I.	2	-	1	1	1	-	2	2	3	-	3	2	3	-	3	3
N.S.	10	8	10	8	15	13	8	7	25	21	18	15	25	21	18	15
N.B.	13	6	7	7	6	6	7	8	19	12	14	15	19	12	14	15
Que.	29	23	26	22	26	18	18	26	55	41	44	48	55	41	44	48
Ont.	68	68	92	76	89	91	87	102	157	159	179	178	157	159	179	178
Man.	12	11	15	5	12	11	17	17	24	22	32	22	24	22	32	22
Sask.	8	11	9	7	11	12	14	13	19	23	23	20	19	23	23	20
Alta.	21	31	35	22	40	34	30	25	61	65	65	47	61	65	65	47
B.C.	28	30	33	29	36	42	39	34	64	72	72	63	64	72	72	63
Canada <sup>1</sup>	196	194	233	183	245	232	222	237	441	426	455	420	441	426	455	420

Province	Psychotropic Agents - Benzodiazepine Tranquillizers															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	23	29	30	21	27	39	36	23	50	68	66	44	50	68	66	44
P.E.I.	6	2	8	9	5	5	8	13	11	7	16	22	11	7	16	22
N.S.	51	42	35	49	67	56	45	64	118	98	80	113	118	98	80	113
N.B.	47	51	50	55	72	66	77	69	119	117	127	124	119	117	127	124
Que.	154	147	164	154	168	192	188	224	322	339	352	378	322	339	352	378
Ont.	376	403	370	367	678	620	599	603	1054	1023	969	970	1054	1023	969	970
Man.	39	35	34	36	60	70	59	81	99	105	93	117	99	105	93	117
Sask.	54	46	26	41	61	68	74	65	115	114	100	106	115	114	100	106
Alta.	181	168	175	165	255	252	286	202	436	420	461	367	436	420	461	367
B.C.	163	148	180	150	314	251	292	279	477	399	472	429	477	399	472	429
Canada <sup>1</sup>	1,094	1,071	1,072	1,047	1,707	1,619	1,664	1,623	2,801	2,690	2,736	2,670	2,801	2,690	2,736	2,670

TABLE J.1 (Continued)

HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Province	Sedatives and Hypnotics - Other												
	Male						Female						Total
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	
Nfld.	31	13	30	23	31	40	33	26	62	53	63	49	
P.E.I.	1	4	1	1	2	7	5	5	3	11	6	6	
N.S.	24	25	42	36	33	28	48	35	57	53	90	71	
N.B.	17	23	27	25	37	37	42	49	54	60	69	74	
Que.	139	126	118	103	204	204	172	173	343	330	290	276	
Ont.	212	238	223	248	332	346	351	366	544	584	574	614	
Man.	12	10	14	17	28	27	23	34	40	37	37	51	
Sask.	30	44	36	33	73	64	89	54	103	108	125	87	
Alta.	78	91	99	80	127	132	114	135	205	223	213	215	
B.C.	87	68	75	88	151	147	135	145	238	215	210	233	
Canada <sup>1</sup>	631	642	665	654	1,018	1,032	1,012	1,022	1,649	1,674	1,677	1,676	

Province	Psychotropic Agents - Antidepressants												
	Male						Female						Total
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	
Nfld.	29	24	35	27	45	32	38	39	74	56	73	66	
P.E.I.	2	2	6	2	5	6	12	9	7	8	18	11	
N.S.	35	35	30	41	48	69	68	62	83	104	98	103	
N.B.	21	20	24	32	42	43	42	52	63	63	66	84	
Que.	103	84	90	101	185	185	156	195	288	269	246	296	
Ont.	270	239	253	304	496	491	504	580	766	730	757	884	
Man.	27	39	26	35	60	67	56	67	87	106	82	102	
Sask.	40	47	54	47	77	96	104	85	117	143	158	132	
Alta.	122	124	141	116	240	250	265	205	362	374	406	321	
B.C.	86	121	141	137	244	219	255	258	330	340	396	395	
Canada <sup>1</sup>	735	735	800	842	1,442	1,458	1,500	1,552	2,177	2,193	2,300	2,394	

TABLE J.1 (Continued)

HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Province	Sedatives and Hypnotics - Chloral Hydrate Group															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	-	2	-	-	1	-	2	2	-	1	-	2	1	2	2	2
P.E.I.	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
N.S.	1	1	4	2	2	-	1	2	-	2	1	2	3	1	5	4
N.B.	1	1	-	2	2	2	1	-	-	3	3	-	3	3	1	2
Que.	1	4	1	3	4	3	2	1	-	5	7	3	5	7	3	4
Ont.	8	13	6	6	13	9	14	16	16	21	20	22	21	22	20	22
Man.	1	1	-	-	2	-	2	1	-	3	2	1	3	-	2	2
Sask.	2	7	2	8	5	5	6	4	4	7	7	12	7	12	8	12
Alta.	-	4	2	6	5	5	6	5	6	5	8	11	5	9	8	11
B.C.	8	4	7	4	7	6	11	7	7	15	10	18	15	10	18	11
Canada <sup>1</sup>	22	36	23	31	41	30	45	38	41	30	45	38	63	66	68	69

Province	Sedatives and Hypnotics - Methaqualone Compounds															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	-	1	-	1	-	-	-	-	-	-	-	1	-	1	-	1
P.E.I.	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
N.S.	1	1	-	1	1	1	1	2	1	2	1	1	2	1	1	3
N.B.	1	1	-	2	-	-	1	-	1	1	1	-	1	1	-	3
Que.	4	-	1	1	1	2	4	-	4	5	2	5	5	2	5	1
Ont.	9	10	6	9	17	4	7	5	7	26	14	14	1	14	13	14
Man.	-	1	1	1	1	-	-	2	-	1	1	3	1	1	1	3
Sask.	-	2	1	-	-	-	1	-	1	-	2	-	-	2	2	-
Alta.	2	1	5	5	5	4	3	3	3	7	8	8	7	5	8	8
B.C.	6	7	3	5	6	3	6	6	6	12	10	9	12	10	9	11
Canada <sup>1</sup>	24	23	17	25	31	14	22	20	31	14	22	20	55	37	39	45



TABLE J.1 (Continued)

HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Province	Analgesics, Antipyretics and Antirheumatics - Other												
	Male						Female						Total
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	
Nfld.	22	22	17	23	30	42	37	62	52	64	54	85	
P.E.I.	3	5	5	9	6	5	11	5	9	10	16	14	
N.S.	32	30	48	37	47	64	74	58	79	94	122	95	
N.B.	29	24	23	34	33	40	44	54	62	64	67	88	
Que.	61	60	92	100	140	152	171	200	201	212	263	300	
Ont.	297	356	427	476	593	635	844	950	890	991	1271	1426	
Man.	43	35	33	48	89	93	85	109	132	128	118	157	
Sask.	52	65	72	78	100	139	150	160	152	204	222	238	
Alta.	119	118	145	165	237	292	325	294	356	410	470	459	
B.C.	124	115	111	169	255	281	329	338	379	396	440	507	
Canada <sup>1</sup>	782	830	973	1,139	1,530	1,743	2,070	2,230	2,312	2,573	3,043	3,369	

Province	Sedatives and Hypnotics - Barbiturates												
	Male						Female						Total
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	
Nfld.	5	1	7	6	11	11	2	6	16	12	9	12	
P.E.I.	1	3	-	-	-	2	2	1	1	5	2	1	
N.S.	10	6	14	8	8	4	3	5	18	10	17	13	
N.B.	14	9	9	6	14	16	12	10	28	25	21	16	
Que.	38	38	38	18	46	48	39	33	84	86	77	51	
Ont.	122	101	88	81	168	165	137	107	290	266	225	188	
Man.	12	10	8	8	18	22	14	20	30	32	22	28	
Sask.	17	22	15	10	30	29	17	14	47	51	32	24	
Alta.	35	26	24	25	40	50	47	20	75	76	71	45	
B.C.	41	36	39	37	88	55	46	38	129	91	85	75	
Canada <sup>1</sup>	295	252	242	199	423	402	319	254	718	654	561	453	



TABLE J.1 (Concluded)

HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY SEX,  
CANADA AND PROVINCES, 1984-85 TO 1987-88

TOTAL ALL CAUSES:

Province	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	205	169	201	182	267	295	262	266	472	464	463	448
P.E.I.	40	36	42	54	42	46	72	73	82	82	114	127
N.S.	276	271	300	282	380	365	369	358	656	636	669	640
N.B.	242	213	216	242	326	310	347	356	568	523	563	598
Que.	1,657	1,604	1,671	1,732	1,802	1,811	1,753	1,947	3,459	3,415	3,424	3,679
Ont.	2,758	2,723	2,825	3,216	4,143	3,934	4,074	4,610	6,901	6,657	6,899	7,826
Man.	326	299	287	290	513	533	477	546	839	832	764	836
Sask.	396	460	460	412	634	677	720	653	1,030	1,137	1,180	1,065
Alta.	1,093	984	1,109	935	1,531	1,607	1,667	1,385	2,624	2,591	2,776	2,320
B.C.	1,056	975	1,090	1,116	1,785	1,563	1,768	1,778	2,841	2,538	2,858	2,894
<b>Canada<sup>1</sup></b>	<b>8,049</b>	<b>7,734</b>	<b>8,201</b>	<b>8,461</b>	<b>11,423</b>	<b>11,141</b>	<b>11,509</b>	<b>11,972</b>	<b>19,472</b>	<b>18,875</b>	<b>19,710</b>	<b>20,433</b>

<sup>1</sup> Excludes newborns, Yukon and Northwest Territories.

<sup>2</sup> Excludes nondependent abuse of alcohol.

Source: Data were obtained from the Canadian Centre for Health Information, Statistics Canada.

TABLE J.2

HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION  
BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

MENTAL DISORDERS:

Province	Drug Psychoses															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	4.9	6.0	2.5	2.8	2.5	2.1	4.6	4.9	3.7	4.0	3.5	3.9	3.7	4.0	3.5	3.9
P.E.I.	4.8	-	-	1.6	6.3	1.6	4.7	4.7	5.6	0.8	2.4	3.1	5.6	0.8	2.4	3.1
N.S.	2.3	1.9	3.9	3.0	3.6	2.7	3.6	2.5	3.0	2.3	3.8	2.7	3.0	2.3	3.8	2.7
N.B.	2.8	3.4	6.0	2.0	4.2	3.9	3.3	3.3	3.5	3.7	4.6	2.7	3.5	3.7	4.6	2.7
Que.	2.8	2.7	2.7	2.3	1.7	1.7	1.8	1.7	2.3	2.2	2.2	2.0	2.3	2.2	2.2	2.0
Ont.	4.3	3.5	3.1	3.9	3.1	2.9	2.3	3.3	3.7	3.2	2.7	3.6	3.7	3.2	2.7	3.6
Man.	6.7	4.2	6.0	4.3	6.3	4.4	6.8	7.3	6.5	4.3	6.4	5.8	6.5	4.3	6.4	5.8
Sask.	6.2	6.3	9.3	4.0	4.4	3.4	3.4	5.3	5.3	4.9	6.3	4.6	5.3	4.9	6.3	4.6
Alta.	8.9	5.5	9.0	8.0	6.9	8.4	7.0	7.1	7.9	6.9	8.0	7.6	7.9	6.9	8.0	7.6
B.C.	6.9	6.0	6.6	7.5	4.7	5.0	6.1	5.8	5.8	5.5	6.4	6.6	5.8	5.5	6.4	6.6
Canada <sup>1</sup>	4.7	3.9	4.4	4.2	3.5	3.4	3.4	3.8	4.1	3.6	3.9	4.0	4.1	3.6	3.9	4.0

Province	Drug Dependence															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	5.2	2.1	5.6	3.2	4.2	4.6	8.1	8.1	4.7	3.3	6.9	5.6	4.7	3.3	6.9	5.6
P.E.I.	6.4	8.0	7.9	9.5	6.3	9.5	15.7	15.5	6.4	8.7	11.8	12.5	6.4	8.7	11.8	12.5
N.S.	7.7	9.1	6.7	4.6	2.5	4.8	5.6	4.0	5.1	6.9	6.2	4.3	5.1	6.9	6.2	4.3
N.B.	3.1	2.8	0.6	2.3	2.8	2.5	3.6	3.3	3.0	2.7	2.1	2.8	3.0	2.7	2.1	2.8
Que.	21.0	22.2	23.7	27.3	13.5	14.3	15.9	16.6	17.2	18.2	19.7	21.8	17.2	18.2	19.7	21.8
Ont.	6.4	6.4	8.2	13.5	5.8	5.4	6.0	9.5	6.1	5.9	7.1	11.5	6.1	5.9	7.1	11.5
Man.	3.5	3.4	3.6	3.8	3.4	5.0	3.7	2.2	3.4	4.2	3.6	3.0	3.4	4.2	3.6	3.0
Sask.	6.2	8.7	12.5	10.3	5.0	6.7	7.7	9.3	5.6	7.7	10.1	9.8	5.6	7.7	10.1	9.8
Alta.	6.4	4.9	6.4	5.9	5.0	5.9	6.8	6.5	5.7	5.4	6.6	6.2	5.7	5.4	6.6	6.2
B.C.	3.6	4.6	4.6	5.5	5.6	4.1	4.0	6.5	4.6	4.3	4.3	6.0	4.6	4.3	4.3	6.0
Canada <sup>1</sup>	9.6	10.0	11.2	14.0	7.3	7.5	8.4	10.0	8.5	8.7	9.8	12.0	8.5	8.7	9.8	12.0

TABLE J.2 (Continued)

HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

MENTAL DISORDERS (Cont'd):

Province	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	2.8	4.2	5.3	2.8	4.9	6.3	2.8	4.2	3.9	5.3	4.0	3.5
P.E.I.	11.2	12.8	12.7	25.3	1.6	4.7	12.5	17.1	6.4	8.7	12.6	21.2
N.S.	3.3	4.2	3.9	5.3	2.7	3.2	3.4	3.8	3.0	3.7	3.7	4.5
N.B.	5.1	4.3	4.0	3.1	5.9	3.6	6.7	5.8	5.5	3.9	5.3	4.5
Que.	2.0	2.3	2.4	2.5	2.3	2.3	2.1	2.5	2.1	2.3	2.2	2.5
Ont.	6.1	6.4	7.1	6.1	6.0	6.1	5.7	6.2	6.1	6.2	6.4	6.2
Man.	8.2	9.1	8.9	7.5	7.1	7.0	9.0	6.9	7.7	8.1	8.9	7.2
Sask.	4.4	7.7	6.1	8.5	3.0	5.5	5.5	5.5	3.7	6.6	5.8	7.0
Alta.	8.6	6.9	8.6	4.2	4.4	6.7	7.5	5.2	6.5	6.8	8.0	4.7
B.C.	4.8	4.6	6.3	4.9	3.7	2.7	4.2	4.3	4.2	3.6	5.2	4.6
Canada <sup>1</sup>	5.0	5.2	5.7	4.9	4.4	4.6	4.8	4.8	4.7	4.9	5.3	4.9

COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM:

Province	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	...	...	...	...	...	...	0.4	...	...	...	0.2	...
P.E.I.	...	...	...	...	...	...	0.2	0.9	...	...	0.1	0.5
N.S.	...	...	...	...	...	0.6	...	0.6	...	0.3	...	0.3
N.B.	...	...	...	...	0.4	0.5	0.4	0.6	0.2	0.3	0.2	0.3
Que.	...	...	...	...	0.2	0.2	0.3	0.3	0.1	0.1	0.1	0.1
Ont.	...	...	...	...	0.9	0.4	0.7	2.0	0.5	0.2	0.4	1.0
Man.	...	...	...	...	0.6	1.2	3.8	2.6	0.3	0.6	1.9	1.3
Sask.	...	...	...	...	1.0	1.0	1.6	1.1	0.5	0.5	0.8	0.5
Alta.	...	...	...	...	0.4	1.9	2.0	2.9	0.2	0.9	1.0	1.5
B.C.	...	...	...	...	0.4	0.6	0.8	0.9	0.2	0.3	0.4	0.5
Canada <sup>1</sup>	...	...	...	...	0.4	0.6	0.8	0.9	0.2	0.3	0.4	0.5

TABLE J.2 (Continued)

HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM (Cont'd):

Province	Suspected Damage to the Fetus from Drugs																				
	Male					Female					Total										
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86		1986-87	1987-88								
Nfld.	..	..	..	..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
P.E.I.	..	..	..	..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	..	..	..	..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.B.	..	..	..	..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Que.	..	..	..	..	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ont.	..	..	..	..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Man.	..	..	..	..	-	-	-	-	-	-	-	-	0.2	-	-	-	-	-	-	-	-
Sask.	..	..	..	..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alta.	..	..	..	..	-	-	-	-	-	-	-	-	0.1	-	-	-	-	-	-	-	-
B.C.	..	..	..	..	0.1	-	-	-	-	0.3	0.1	-	-	-	-	-	-	-	-	-	-
Canada <sup>1</sup>	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD:

Province	Drug Withdrawal Syndrome in Newborn																				
	Male					Female					Total										
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86		1986-87	1987-88								
Nfld.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.B.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Que.	..	..	..	..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ont.	..	..	..	..	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	-	0.2	0.2	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alta.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B.C.	1.6	1.7	2.9	2.1	2.4	1.2	1.1	3.0	2.0	1.4	2.0	1.4	2.0	1.4	2.0	1.4	2.0	1.4	2.0	1.4	2.0
Canada <sup>1</sup>	0.2	0.2	0.3	0.3	0.3	0.1	0.1	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



TABLE J.2 (Continued)

HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES:

Province	Analgesics, Antipyretics and Antirheumatics - Opiates and Related Narcotics											
	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	1.4	0.4	0.7	1.8	1.1	1.8	2.1	1.8	1.2	1.1	1.4	1.8
P.E.I.	1.6	1.6	-	3.2	1.6	1.6	1.6	1.6	1.6	1.6	0.8	2.4
N.S.	0.7	0.7	0.2	1.6	2.7	0.9	1.4	1.6	1.7	0.8	0.8	1.6
N.B.	0.3	1.4	0.6	1.4	1.4	0.8	1.4	1.7	0.8	1.1	1.0	1.5
Que.	0.7	0.6	0.4	0.5	0.6	0.5	0.6	0.7	0.6	0.5	0.5	0.6
Ont.	1.2	1.3	1.0	1.0	1.6	1.5	1.4	1.7	1.4	1.4	1.2	1.4
Man.	1.5	0.2	0.6	1.1	2.1	1.7	0.4	0.7	1.8	0.9	0.5	0.9
Sask.	1.4	1.2	1.4	1.2	2.8	4.4	2.8	1.6	2.1	2.8	2.1	1.4
Alta.	2.8	2.3	3.2	1.8	3.6	2.3	3.1	4.7	3.2	2.3	3.2	3.3
B.C.	2.5	2.7	2.8	2.8	3.1	2.7	3.0	3.4	2.8	2.7	2.9	3.1
Canada <sup>1</sup>	1.3	1.3	1.2	1.3	1.8	1.5	1.6	1.9	1.6	1.4	1.4	1.6

Province	Analgesics, Antipyretics and Antirheumatics - Salicylates											
	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	12.9	9.1	6.7	10.6	22.5	22.9	16.9	11.3	17.7	16.0	11.8	10.9
P.E.I.	12.8	6.4	6.3	6.3	12.7	12.6	14.1	12.4	12.8	9.5	10.3	9.4
N.S.	6.1	8.8	7.2	4.4	19.4	11.8	9.0	11.0	12.8	10.3	8.1	7.7
N.B.	11.4	6.3	7.4	8.0	15.1	11.1	13.6	13.3	13.3	8.7	10.6	10.7
Que.	6.5	4.7	4.3	3.6	9.9	8.1	6.8	7.3	8.3	6.4	5.6	5.5
Ont.	9.5	7.2	6.5	7.3	17.5	13.5	12.1	13.2	13.5	10.4	9.3	10.3
Man.	12.5	11.8	8.7	7.7	24.4	24.6	18.4	17.2	18.5	18.3	13.6	12.5
Sask.	15.7	12.3	12.1	9.3	32.7	24.5	21.4	20.9	24.2	18.4	16.7	15.1
Alta.	14.7	11.8	9.8	6.3	24.7	21.8	19.2	13.2	19.7	16.8	14.4	9.7
B.C.	11.7	8.3	7.7	7.0	22.1	16.3	18.3	14.6	17.0	12.4	13.1	10.8
Canada <sup>1</sup>	9.9	7.6	6.7	6.3	17.6	14.1	12.7	12.1	13.8	10.9	9.8	9.3

TABLE J.2 (Continued)

## HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

## POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Province	Analgesics, Antipyretics and Antirheumatics - Other												
	Male						Female						Total
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	
Nfld.	7.7	7.7	6.0	8.1	10.5	14.8	13.0	21.8	9.1	11.2	9.5	15.0	
P.E.I.	4.8	8.0	7.9	14.2	9.5	7.9	17.2	7.8	7.2	7.9	12.6	11.0	
N.S.	7.5	7.0	11.1	8.5	10.7	14.5	16.7	13.0	9.1	10.8	13.9	10.8	
N.B.	8.3	6.8	6.5	9.7	9.2	11.1	12.2	15.0	8.7	9.0	9.4	12.4	
Que.	1.9	1.9	2.9	3.1	4.2	4.6	5.1	5.9	3.1	3.3	4.0	4.5	
Ont.	6.8	8.0	9.5	10.4	13.0	13.8	18.1	20.0	9.9	11.0	13.9	15.3	
Man.	8.2	6.7	6.2	9.0	16.6	17.2	15.6	19.9	12.5	12.0	11.0	14.5	
Sask.	10.3	12.9	14.3	15.4	19.9	27.5	29.7	31.6	15.1	20.2	22.0	23.5	
Alta.	10.1	9.9	12.1	13.8	20.6	25.1	27.6	24.8	15.3	17.5	19.8	19.3	
B.C.	8.7	8.1	7.7	11.6	17.7	19.3	22.5	22.7	13.3	13.8	15.2	17.2	
Canada <sup>1</sup>	6.3	6.7	7.8	9.0	12.1	13.6	16.1	17.1	9.2	10.2	12.0	13.1	

Province	Sedatives and Hypnotics - Barbiturates												
	Male						Female						Total
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	
Nfld.	1.7	0.4	2.5	2.1	3.9	3.9	0.7	2.1	2.8	2.1	1.6	2.1	
P.E.I.	1.6	4.8	-	-	-	3.2	3.1	1.6	0.8	4.0	1.6	0.8	
N.S.	2.3	1.4	3.2	1.8	1.8	0.9	0.7	1.1	2.1	1.1	1.9	1.5	
N.B.	4.0	2.6	2.6	1.7	3.9	4.5	3.3	2.8	3.9	3.5	3.0	2.2	
Que.	1.2	1.2	1.2	0.6	1.4	1.4	1.2	1.0	1.3	1.3	1.2	0.8	
Ont.	2.8	2.3	2.0	1.8	3.7	3.6	2.9	2.3	3.2	2.9	2.5	2.0	
Man.	2.3	1.9	1.5	1.5	3.4	4.1	2.6	3.7	2.8	3.0	2.0	2.6	
Sask.	3.4	4.4	3.0	2.0	6.0	5.7	3.4	2.8	4.7	5.0	3.2	2.4	
Alta.	3.0	2.2	2.0	2.1	3.5	4.3	4.0	1.7	3.2	3.2	3.0	1.9	
B.C.	2.9	2.5	2.7	2.5	6.1	3.8	3.1	2.6	4.5	3.2	2.9	2.5	
Canada <sup>1</sup>	2.4	2.0	1.9	1.6	3.3	3.1	2.5	1.9	2.9	2.6	2.2	1.8	

TABLE J.2 (Continued)

HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Province	Sedatives and Hypnotics - Chloral Hydrate Group														
	Male						Female						Total		
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1986-87	1987-88
Nfld.	-	0.7	-	-	0.4	-	0.7	0.7	-	-	-	-	0.2	0.4	0.4
P.E.I.	-	-	1.6	-	-	-	-	-	-	-	-	-	-	-	0.8
N.S.	0.2	0.2	0.9	0.5	0.5	-	0.2	0.4	-	-	-	-	0.3	0.1	0.6
N.B.	0.3	0.3	-	0.6	0.6	0.6	0.3	-	-	-	-	-	0.4	0.4	0.1
Que.	..	0.1	..	0.1	0.1	0.1	0.1	..	..	..	..	..	0.1	0.1	..
Ont.	0.2	0.3	0.1	0.1	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Man.	0.2	-	-	-	0.4	-	0.4	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.1
Sask.	0.4	1.4	0.4	1.6	1.0	1.0	1.2	0.8	0.7	1.2	0.8	1.2	0.7	1.2	0.8
Alta.	-	0.3	0.2	0.5	0.4	0.4	0.5	0.4	0.4	0.2	0.4	0.3	0.2	0.4	0.3
B.C.	0.6	0.3	0.5	0.3	0.5	0.4	0.8	0.5	0.5	0.3	0.6	0.4	0.5	0.3	0.6
Canada <sup>1</sup>	0.2	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3

Sedatives and Hypnotics - Methaqualone Compounds

Province	Sedatives and Hypnotics - Methaqualone Compounds														
	Male						Female						Total		
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1986-87	1987-88
Nfld.	-	0.4	-	0.4	-	-	-	-	-	-	-	-	-	0.2	-
P.E.I.	1.6	-	-	-	-	-	-	1.6	-	-	-	-	0.8	-	0.8
N.S.	0.2	-	-	0.2	0.2	0.2	0.2	0.4	0.2	0.4	0.2	0.1	0.2	0.1	0.3
N.B.	0.3	0.3	-	0.6	-	-	-	0.3	-	-	-	-	0.1	0.1	-
Que.	0.1	-	..	..	..	0.1	0.1	-	-	-	-	-	0.1	0.1	..
Ont.	0.2	0.2	0.1	0.2	0.4	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.3	0.2	0.1
Man.	-	0.2	0.2	0.2	0.2	-	-	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Sask.	-	0.4	0.2	-	-	-	-	-	-	-	-	-	-	0.2	0.2
Alta.	0.2	0.1	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3
B.C.	0.4	0.5	0.2	0.3	0.4	0.2	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.3	0.4
Canada <sup>1</sup>	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2



TABLE J.2 (Continued)

HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION  
BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Province	Sedatives and Hypnotics - Other															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	10.8	4.6	10.6	8.1	10.9	14.1	11.6	9.1	10.9	14.1	11.6	9.1	10.9	9.3	11.1	8.6
P.E.I.	1.6	6.4	1.6	1.6	3.2	11.0	7.8	7.8	3.2	11.0	7.8	7.8	2.4	8.7	4.7	4.7
N.S.	5.6	5.8	9.7	8.3	7.5	6.3	10.8	7.8	7.5	6.3	10.8	7.8	6.6	6.1	10.3	8.1
N.B.	4.8	6.5	7.7	7.1	10.3	10.3	11.7	13.6	10.3	10.3	11.7	13.6	7.6	8.4	9.7	10.4
Que.	4.4	3.9	3.7	3.2	6.2	6.1	5.1	5.1	6.2	6.1	5.1	5.1	5.3	5.1	4.4	4.2
Ont.	4.8	5.4	5.0	5.4	7.3	7.5	7.5	7.7	7.3	7.5	7.5	7.7	6.1	6.5	6.3	6.6
Man.	2.3	1.9	2.6	3.2	5.2	5.0	4.2	6.2	5.2	5.0	4.2	6.2	3.8	3.5	3.4	4.7
Sask.	6.0	8.7	7.1	6.5	14.5	12.7	17.6	10.7	14.5	12.7	17.6	10.7	10.3	10.7	12.4	8.6
Alta.	6.6	7.7	8.3	6.7	11.0	11.3	9.7	11.4	11.0	11.3	9.7	11.4	8.8	9.5	9.0	9.0
B.C.	6.1	4.8	5.2	6.0	10.5	10.1	9.2	9.7	10.5	10.1	9.2	9.7	8.3	7.5	7.2	7.9
Canada <sup>1</sup>	5.1	5.2	5.3	5.2	8.0	8.1	7.9	7.8	8.0	8.1	7.9	7.8	6.6	6.6	6.6	6.5

Psychotropic Agents - Antidepressants

Province	Psychotropic Agents - Antidepressants															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	10.1	8.4	12.3	9.5	15.8	11.3	13.4	13.7	15.8	11.3	13.4	13.7	13.0	9.8	12.8	11.6
P.E.I.	3.2	3.2	9.5	3.2	7.9	9.5	18.8	14.0	7.9	9.5	18.8	14.0	5.6	6.3	14.2	8.6
N.S.	8.2	8.1	6.9	9.4	10.9	15.6	15.3	13.9	10.9	15.6	15.3	13.9	9.6	11.9	11.2	11.7
N.B.	6.0	5.7	6.8	9.1	11.7	12.0	11.7	14.4	11.7	12.0	11.7	14.4	8.9	8.9	9.3	11.8
Que.	3.2	2.6	2.8	3.1	5.6	5.6	4.7	5.8	5.6	5.6	4.7	5.8	4.4	4.1	3.8	4.5
Ont.	6.1	5.4	5.6	6.6	10.9	10.7	10.8	12.2	10.9	10.7	10.8	12.2	8.6	8.1	8.3	9.5
Man.	5.2	7.4	4.9	6.6	11.2	12.4	10.3	12.2	11.2	12.4	10.3	12.2	8.2	10.0	7.6	9.4
Sask.	8.0	9.3	10.7	9.3	15.3	19.0	20.6	16.8	15.3	19.0	20.6	16.8	11.6	14.2	15.6	13.0
Alta.	10.3	10.5	11.8	9.7	20.8	21.5	22.5	17.3	20.8	21.5	22.5	17.3	15.5	15.9	17.1	13.5
B.C.	6.1	8.5	9.8	9.4	16.9	15.1	17.4	17.3	16.9	15.1	17.4	17.3	11.5	11.8	13.6	13.4
Canada <sup>1</sup>	5.9	5.9	6.4	6.6	11.4	11.4	11.6	11.9	11.4	11.4	11.6	11.9	8.7	8.7	9.0	9.3



TABLE J.2 (Continued)

HOSPITAL SEPARATION<sup>1</sup> RATES FOR DRUG-RELATED CASES<sup>2</sup> PER 100,000 POPULATION  
BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Province	Psychotropic Agents - Phenothiazine Tranquillizers											
	Male					Female					Total	
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	1.7	2.1	1.8	2.1	3.2	1.8	-	1.1	2.5	1.9	0.9	1.6
P.E.I.	3.2	-	1.6	1.6	1.6	-	3.1	3.1	2.4	-	2.4	2.4
N.S.	2.3	1.9	2.3	1.8	3.4	2.9	1.8	1.6	2.9	2.4	2.1	1.7
N.B.	3.7	1.7	2.0	2.0	1.7	1.7	1.9	2.2	2.7	1.7	2.0	2.1
Que.	0.9	0.7	0.8	0.7	0.8	0.5	0.5	0.8	0.7	0.6	0.7	0.7
Ont.	1.5	1.5	2.0	1.7	2.0	2.0	1.9	2.1	1.8	1.8	2.0	1.9
Man.	2.3	2.1	2.8	0.9	2.2	2.0	3.1	3.1	1.9	2.1	3.0	2.0
Sask.	1.6	2.2	1.8	1.4	2.2	2.4	2.8	2.6	1.9	2.3	2.3	2.0
Alta.	1.8	2.6	2.9	1.8	3.5	2.9	2.5	2.1	2.6	2.8	2.7	2.0
B.C.	2.0	2.1	2.3	2.0	2.5	2.9	2.7	2.3	2.2	2.5	2.5	2.1
Canada <sup>1</sup>	1.6	1.6	1.9	1.4	1.9	1.8	1.7	1.8	1.8	1.7	1.8	1.6

Psychotropic Agents - Benzodiazepine Tranquillizers

Province	Psychotropic Agents - Benzodiazepine Tranquillizers											
	Male					Female					Total	
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	8.0	10.2	10.6	7.4	9.5	13.7	12.7	8.1	8.8	11.9	11.6	7.8
P.E.I.	9.6	3.2	12.7	14.2	7.9	7.9	12.5	20.2	8.8	5.6	12.6	17.2
N.S.	11.9	9.8	8.1	11.3	15.3	12.7	10.1	14.3	13.6	11.2	9.1	12.8
N.B.	13.4	14.5	14.2	15.6	20.1	18.4	21.4	19.1	16.8	16.5	17.9	17.4
Que.	4.8	4.6	5.1	4.8	5.1	5.8	5.6	6.6	5.0	5.2	5.4	5.7
Ont.	8.6	9.1	8.2	8.0	14.9	13.5	12.8	12.7	11.8	11.3	10.6	10.4
Man.	7.5	6.7	6.4	6.8	11.2	13.0	10.8	14.8	9.4	9.9	8.7	10.8
Sask.	10.7	9.1	5.2	8.1	12.2	13.5	14.6	12.8	11.4	11.3	9.9	10.5
Alta.	15.3	14.2	14.6	13.8	22.1	21.7	24.3	17.1	18.7	17.9	19.4	15.4
B.C.	11.5	10.4	12.5	10.3	21.8	17.3	19.9	18.7	16.7	13.9	16.3	14.6
Canada <sup>1</sup>	8.8	8.6	8.5	8.3	13.5	12.7	12.9	12.4	11.2	10.7	10.8	10.4

TABLE J.2 (Continued)

HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Province	Psychotropic Agents - Other Tranquillizers															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	2.8	0.7	4.6	4.2	3.5	5.3	4.2	6.0					3.2	3.0	4.4	5.1
P.E.I.	-	1.6	4.8	3.2	6.3	1.6	-	3.1					3.2	1.6	2.4	3.1
N.S.	3.5	3.3	2.5	2.3	3.6	3.4	2.7	2.7					3.6	3.3	2.6	2.5
N.B.	2.3	2.0	2.0	3.7	2.5	3.6	4.5	2.8					2.4	2.8	3.2	3.2
Que.	1.5	1.5	1.1	0.9	1.9	2.0	1.4	1.8					1.7	1.8	1.2	1.3
Ont.	1.9	2.2	2.2	2.0	2.7	2.4	2.8	3.4					2.3	2.3	2.5	2.7
Man.	0.2	0.4	0.9	1.5	0.7	1.3	0.7	1.6					0.5	0.8	0.8	1.6
Sask.	3.6	4.4	2.2	2.4	5.6	4.6	6.3	3.4					4.6	4.5	4.3	2.9
Alta.	1.2	1.1	1.2	1.0	2.2	2.3	2.0	1.9					1.7	1.7	1.6	1.4
B.C.	2.3	1.8	1.9	1.9	3.6	2.8	3.6	2.5					3.0	2.3	2.8	2.2
Canada <sup>1</sup>	1.9	1.9	1.8	1.7	2.6	2.5	2.5	2.7					2.2	2.2	2.2	2.2

Province	Psychotropic Agents - Other															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	1.4	2.5	1.8	1.1	1.1	1.4	1.1	0.7					1.2	1.9	1.4	0.9
P.E.I.	1.6	1.6	-	1.6	1.6	1.6	1.6	3.1					1.6	1.6	0.8	2.4
N.S.	2.6	0.9	2.5	1.6	1.6	2.7	1.4	1.1					2.1	1.8	1.9	1.4
N.B.	3.1	2.0	1.1	2.0	1.7	1.7	0.8	0.6					2.4	1.8	1.0	1.3
Que.	0.8	1.0	0.9	0.7	0.8	0.9	0.9	1.4					0.8	1.0	0.9	1.1
Ont.	2.3	2.0	2.1	1.9	1.6	2.1	2.2	1.8					2.0	2.1	2.2	1.9
Man.	1.9	1.0	0.8	0.4	0.4	0.6	0.7	1.1					1.1	0.8	0.7	0.7
Sask.	1.0	2.0	4.8	1.6	1.0	2.0	1.6	2.0					1.0	2.0	3.2	1.8
Alta.	2.7	3.0	2.2	2.0	2.6	2.0	3.0	2.1					2.7	2.5	2.6	2.1
B.C.	2.8	1.6	2.1	2.5	1.7	1.9	2.0	2.2					2.3	1.7	2.1	2.3
Canada <sup>1</sup>	2.0	1.7	1.8	1.6	1.4	1.7	1.7	1.7					1.7	1.7	1.8	1.6

TABLE J.2 (Concluded)

HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

TOTAL ALL CAUSES:

Province	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	71.6	59.3	70.8	64.3	93.7	103.8	92.2	93.6	82.6	81.5	81.5	78.9
P.E.I.	64.2	57.4	66.7	85.4	66.7	72.6	112.9	113.4	65.4	65.0	89.9	99.5
N.S.	64.4	63.0	69.5	65.0	86.5	82.6	83.1	80.1	75.6	72.9	76.4	72.6
N.B.	68.9	60.6	61.5	68.8	91.1	86.4	96.5	98.7	80.1	73.6	79.2	83.9
Que.	51.9	50.1	52.0	53.5	54.5	54.5	52.4	57.8	53.2	52.4	52.2	55.7
Ont.	62.7	61.3	62.8	70.1	91.0	85.4	87.3	97.1	77.1	73.6	75.3	83.8
Man.	62.5	56.9	54.2	54.4	95.7	98.7	87.7	99.7	79.3	78.1	71.2	77.4
Sask.	78.8	91.1	91.2	81.5	126.3	134.0	142.5	128.8	102.5	112.5	116.8	105.2
Alta.	92.5	83.0	92.7	78.0	132.9	138.1	141.5	117.0	112.5	110.3	116.9	97.4
B.C.	74.5	68.3	75.9	76.6	123.9	107.6	120.7	119.5	99.4	88.1	98.5	98.2
Canada <sup>1</sup>	65.0	62.1	65.3	66.7	90.2	87.2	89.3	91.8	77.7	74.8	77.5	79.4

Notes: See corresponding notes, Table J.1

Source: Data were obtained from the Canadian Centre for Health Information, Statistics Canada.



TABLE J.3

HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

MENTAL DISORDERS:

Province	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	7.9	9.5	3.9	4.4	3.9	3.3	7.0	7.5	5.9	6.4	5.5	6.0
P.E.I.	7.3	-	-	2.3	9.3	2.3	6.8	6.7	8.3	1.2	3.5	4.6
N.S.	3.4	2.7	5.7	4.3	5.2	3.8	5.0	3.4	4.3	3.3	5.3	3.8
N.B.	4.3	5.1	8.8	2.9	6.1	5.6	4.8	4.7	5.2	5.4	6.7	3.8
Que.	4.0	3.9	3.9	3.3	2.4	2.3	2.4	2.2	3.2	3.1	3.1	2.7
Ont.	6.1	5.0	4.4	5.5	4.3	4.0	3.2	4.5	5.1	4.5	3.8	5.0
Man.	9.9	6.1	8.8	6.3	9.0	6.3	9.6	10.2	9.4	6.2	9.2	8.3
Sask.	9.3	9.5	13.9	5.9	6.4	4.9	4.9	7.7	7.8	7.2	9.3	6.8
Alta.	13.1	8.1	13.3	11.8	10.2	12.2	10.1	10.2	11.7	10.2	11.7	11.0
B.C.	9.8	8.4	9.3	10.5	6.5	6.9	8.4	7.9	8.1	7.6	8.8	9.1
Canada <sup>1</sup>	6.8	5.6	6.3	6.0	4.9	4.7	4.7	5.2	5.8	5.1	5.5	5.6

Province	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	8.5	3.4	8.9	5.0	6.7	7.1	12.5	12.3	7.6	5.3	10.7	8.7
P.E.I.	9.7	11.9	11.8	14.1	9.3	13.7	22.5	22.2	9.5	12.8	17.3	18.2
N.S.	11.3	13.2	9.7	6.6	3.6	6.7	7.9	5.6	7.3	9.8	8.8	6.1
N.B.	4.7	4.2	0.8	3.3	4.1	3.6	5.2	4.7	4.4	3.9	3.1	4.0
Que.	30.1	31.5	33.3	38.3	18.6	19.5	21.6	22.4	24.1	25.3	27.3	30.1
Ont.	9.2	9.1	11.6	19.1	8.1	7.4	8.1	13.0	8.6	8.2	9.8	15.9
Man.	5.1	5.0	5.2	5.4	4.8	7.1	5.2	3.1	4.9	6.1	5.2	4.2
Sask.	9.3	13.0	18.6	15.3	7.3	9.8	11.2	13.5	8.3	11.4	14.9	14.4
Alta.	9.5	7.2	9.5	8.7	7.4	8.6	9.8	9.4	8.4	7.9	9.6	9.0
B.C.	5.1	6.4	6.4	7.7	7.7	5.7	5.5	8.9	6.4	6.0	6.0	8.3
Canada <sup>1</sup>	13.9	14.3	16.0	19.9	10.3	10.5	11.6	13.8	12.1	12.3	13.7	16.7



TABLE J.3 (Continued)

HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

MENTAL DISORDERS (Cont'd):

Province	Nondependent Abuse of Drugs <sup>2</sup>											
	Male					Female					Total	
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	4.5	6.7	8.3	4.4	7.8	9.9	4.3	6.4	6.2	8.3	6.3	5.4
P.E.I.	16.9	19.1	19.0	37.5	2.3	6.8	18.0	24.4	9.5	12.8	18.5	30.8
N.S.	4.8	6.1	5.7	7.6	3.9	4.5	4.7	5.3	4.3	5.2	5.2	6.4
N.B.	7.7	6.4	5.9	4.6	8.5	5.2	9.5	8.3	8.1	5.8	7.8	6.5
Que.	2.8	3.3	3.3	3.5	3.1	3.2	2.9	3.3	3.2	3.2	3.1	3.4
Ont.	8.8	9.1	10.1	8.6	8.3	8.3	7.9	8.5	8.5	8.7	8.9	8.5
Man.	12.1	13.3	12.9	10.9	10.1	9.9	12.7	9.7	11.1	11.6	12.8	10.3
Sask.	6.6	11.5	9.2	12.6	4.4	8.1	8.1	8.0	5.5	9.8	8.6	10.3
Alta.	12.6	10.2	12.7	6.1	6.5	9.7	10.8	7.6	9.6	10.0	11.7	6.8
B.C.	6.8	6.5	8.8	6.8	5.1	3.7	5.8	5.8	5.9	5.1	7.2	6.3
Canada <sup>1</sup>	7.2	7.5	8.2	7.0	6.1	6.4	6.7	6.7	6.6	6.9	7.4	6.8

COMPLICATIONS OF PREGNANCY, CHILD BIRTH AND THE PUERPERIUM:

Province	Drug Dependence											
	Male					Female					Total	
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	...	...	...	...	...	...	0.5	...	...	...	0.3	...
P.E.I.	...	...	...	...	...	...	...	...	...	...	...	...
N.S.	...	...	...	...	...	...	0.3	1.2	...	...	0.2	0.6
N.B.	...	...	...	...	...	0.8	...	0.8	...	0.4	...	0.4
Que.	...	...	...	...	0.6	0.7	0.6	0.8	0.3	0.4	0.3	0.4
Ont.	...	...	...	...	0.3	0.3	0.4	0.4	0.1	0.2	0.2	0.2
Man.	...	...	...	...	1.3	0.5	1.0	2.8	0.7	0.3	0.5	1.5
Sask.	...	...	...	...	0.9	1.7	5.5	3.7	0.4	0.9	2.8	1.9
Alta.	...	...	...	...	1.4	1.5	2.3	1.6	0.7	0.7	1.2	0.8
B.C.	...	...	...	...	0.6	2.5	2.7	3.9	0.3	1.3	1.4	2.0
Canada <sup>1</sup>	...	...	...	...	0.5	0.8	1.1	1.2	0.3	0.4	0.5	0.6

TABLE J.3 (Continued)

HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM (Cont'd):

Province	Suspected Damage to the Fetus from Drugs								
	Male			Female					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	Total
Nfld.	..	..	..	..	..	..	..	..	..
P.E.I.	..	..	..	..	..	..	..	..	..
N.S.	..	..	..	..	..	..	..	..	..
N.B.	..	..	..	..	..	..	..	..	..
Que.	..	..	..	..	0.1	..	..	..	..
Ont.	..	..	..	..	0.1	..	0.1	..	0.1
Man.	..	..	..	..	..	..	0.3	..	..
Sask.	..	..	..	..	..	..	..	..	..
Alta.	..	..	..	..	..	..	..	0.1	..
B.C.	..	..	..	..	0.1	..	0.4	0.2	0.1
Canada <sup>1</sup>	..	..	..	..	..	..	0.1	0.1	..

CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD:

Province	Drug Withdrawal Syndrome in Newborn								
	Male			Female					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	Total
Nfld.	..	..	..	..	..	..	..	..	..
P.E.I.	..	..	..	..	..	..	..	..	..
N.S.	..	..	0.3	..	..	..	..	..	0.2
N.B.	..	..	..	..	..	..	..	..	..
Que.	..	..	..	..	..	..	..	0.1	..
Ont.	..	..	..	..	..	..	0.3	..	0.1
Man.	..	..	..	..	..	..	..	0.6	0.1
Sask.	..	0.3	..	..	0.3	..	..	..	0.1
Alta.	..	..	0.1	..	..	..	..	..	..
B.C.	2.2	2.4	4.1	3.0	3.2	1.6	1.5	4.0	2.7
Canada <sup>1</sup>	0.3	0.3	0.5	0.4	0.4	0.2	0.2	0.5	0.3
									0.2
									0.3
									2.8
									0.1
									3.5
									0.5

TABLE J.3 (Continued)

HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES:

Province	Analgesics, Antipyretics and Antirheumatics - Opiates and Related Narcotics								
	Male			Female					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	Total
Nfld.	2.3	0.6	1.1	2.8	1.7	2.7	3.3	2.7	2.0
P.E.I.	2.4	2.4	-	4.7	2.3	2.3	2.3	2.2	2.4
N.S.	1.0	1.0	0.3	2.3	3.9	1.3	1.9	2.2	2.5
N.B.	0.4	2.1	0.8	2.1	2.0	1.2	2.0	2.4	1.3
Que.	0.9	0.8	0.6	0.7	0.8	0.7	0.9	1.0	0.9
Ont.	1.7	1.8	1.5	1.5	2.3	2.1	1.9	2.3	2.0
Man.	2.3	0.3	0.8	1.6	2.9	2.4	0.5	1.0	2.6
Sask.	2.1	1.8	2.1	1.8	4.1	6.4	4.0	2.3	3.1
Alta.	4.1	3.4	4.7	2.7	5.3	3.4	4.5	6.8	4.7
B.C.	3.5	3.7	3.9	3.9	4.3	3.7	4.1	4.7	3.9
Canada <sup>1</sup>	1.9	1.8	1.8	1.8	2.5	2.1	2.1	2.6	2.2

Province	Analgesics, Antipyretics and Antirheumatics - Salicylates								
	Male			Female					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	Total
Nfld.	20.9	14.6	10.6	16.5	35.5	35.6	26.0	17.1	28.3
P.E.I.	19.4	9.5	9.5	9.4	18.6	18.3	20.3	17.7	19.0
N.S.	8.9	12.9	10.4	6.3	27.5	16.6	12.6	15.2	18.5
N.B.	17.1	9.3	10.9	11.7	22.0	16.1	19.5	18.9	19.6
Que.	9.3	6.6	6.0	5.1	13.7	11.0	9.3	9.9	11.6
Ont.	13.6	10.2	9.1	10.3	24.2	18.5	16.6	18.0	19.1
Man.	18.3	17.2	12.6	11.2	34.7	34.8	25.8	24.1	26.8
Sask.	23.6	18.3	18.0	13.8	48.0	35.9	31.1	30.4	35.9
Alta.	21.8	17.4	14.4	9.2	36.2	31.7	27.8	19.0	28.9
B.C.	16.5	11.7	10.8	9.8	30.5	22.3	25.0	19.8	23.7
Canada <sup>1</sup>	14.3	10.9	9.6	8.9	24.7	19.6	17.6	16.7	19.6



TABLE J.3 (Continued)

HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Province	Analgesics, Antipyretics and Antirheumatics - Other											
	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	12.4	12.3	9.4	12.7	16.6	23.0	20.0	33.1	14.6	17.7	14.8	23.1
P.E.I.	7.3	11.9	11.8	21.1	13.9	11.4	24.8	11.1	10.7	11.7	18.5	15.9
N.S.	11.0	10.1	16.0	12.2	15.2	20.4	23.3	18.0	13.2	15.4	19.8	15.2
N.B.	12.4	10.2	9.7	14.2	13.4	16.1	17.5	21.2	12.9	13.2	13.7	17.8
Que.	2.7	2.7	4.0	4.3	5.8	6.3	7.0	8.0	4.3	4.5	5.5	6.2
Ont.	9.7	11.4	13.4	14.6	18.0	18.9	24.7	27.3	14.0	15.3	19.3	21.2
Man.	12.1	9.7	9.1	13.1	23.6	24.3	22.0	27.9	18.0	17.2	15.7	20.7
Sask.	15.5	19.2	21.3	22.9	29.3	40.2	43.2	45.9	22.5	29.8	32.4	34.5
Alta.	14.9	14.7	17.8	20.2	30.1	36.5	39.9	35.8	22.4	25.5	28.9	28.1
B.C.	12.4	11.3	10.8	16.2	24.4	26.5	30.6	30.9	18.5	19.1	21.0	23.7
Canada <sup>1</sup>	9.1	9.6	11.1	12.8	16.9	19.0	22.2	23.6	13.1	14.4	16.8	18.3

Province	Sedatives and Hypnotics - Barbiturates											
	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	2.8	0.6	3.9	3.3	6.1	6.0	1.1	3.2	4.5	3.3	2.5	3.3
P.E.I.	2.4	7.2	-	-	-	4.6	4.5	2.2	1.2	5.8	2.3	1.1
N.S.	3.4	2.0	4.7	2.6	2.6	1.3	0.9	1.6	3.0	1.6	2.8	2.1
N.B.	6.0	3.8	3.8	2.5	5.7	6.4	4.8	3.9	5.8	5.2	4.3	3.2
Que.	1.7	1.7	1.7	0.8	1.9	2.0	1.6	1.3	1.8	1.8	1.6	1.1
Ont.	4.0	3.2	2.8	2.5	5.1	4.9	4.0	3.1	4.6	4.1	3.4	2.8
Man.	3.4	2.8	2.2	2.2	4.8	5.8	3.6	5.1	4.1	4.3	2.9	3.7
Sask.	5.1	6.5	4.4	2.9	8.8	8.4	4.9	4.0	6.9	7.5	4.7	3.5
Alta.	4.4	3.2	3.0	3.1	5.1	6.2	5.8	2.4	4.7	4.7	4.4	2.8
B.C.	4.1	3.5	3.8	3.5	8.4	5.2	4.3	3.5	6.3	4.4	4.1	3.5
Canada <sup>1</sup>	3.4	2.9	2.8	2.2	4.7	4.4	3.4	2.7	4.1	3.7	3.1	2.5



TABLE J.3 (Continued)

HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Province	Sedatives and Hypnotics - Chloral Hydrate Group															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	-	1.1	-	-	0.6	-	1.1	1.1	0.3	-	-	1.1	0.3	0.6	0.5	0.5
P.E.I.	-	-	2.4	-	-	-	-	-	-	-	-	-	-	-	1.2	-
N.S.	0.3	0.3	1.3	0.7	0.6	0.8	0.3	0.6	0.5	0.2	0.8	0.6	0.5	0.2	0.8	0.6
N.B.	0.4	0.4	-	0.8	0.8	0.8	0.4	-	0.6	0.6	0.2	-	0.6	0.6	0.2	0.4
Que.	..	0.2	..	0.1	0.2	0.1	0.1	..	0.1	0.1	0.1	..	0.1	0.1	0.1	0.1
Ont.	0.3	0.4	0.2	0.2	0.4	0.3	0.4	0.5	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3
Man.	0.3	-	-	-	0.5	-	0.5	0.3	0.4	0.4	0.4	0.3	0.4	-	0.3	0.1
Sask.	0.6	2.1	0.6	2.4	1.5	1.4	1.7	1.1	1.0	1.8	1.2	1.7	1.0	1.8	1.2	1.7
Alta.	-	0.5	0.2	0.7	0.6	0.6	0.7	0.6	0.3	0.6	0.5	0.7	0.3	0.6	0.5	0.7
B.C.	0.8	0.4	0.7	0.4	0.7	0.6	1.0	0.6	0.7	0.5	0.9	0.6	0.7	0.5	0.9	0.5
Canada <sup>1</sup>	0.3	0.4	0.3	0.3	0.5	0.3	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

Sedatives and Hypnotics - Methaqualone Compounds

Province	Sedatives and Hypnotics - Methaqualone Compounds															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	-	0.6	-	0.6	-	-	-	-	-	-	-	-	-	0.3	-	0.3
P.E.I.	2.4	-	-	-	0.3	-	-	2.2	-	1.2	-	-	1.2	-	-	1.1
N.S.	0.3	-	-	0.3	0.3	0.3	0.3	0.6	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.5
N.B.	0.4	0.4	-	0.8	-	-	-	0.4	0.4	0.2	0.2	-	0.2	0.2	-	0.6
Que.	0.2	..	..	..	..	0.1	0.2	-	0.1	0.1	0.1	..	0.1	0.1	0.1	..
Ont.	0.3	0.3	0.2	0.3	0.5	0.1	0.2	0.1	0.2	0.4	0.2	0.2	0.4	0.2	0.2	0.2
Man.	-	0.3	0.3	0.3	0.3	-	-	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
Sask.	-	0.6	0.3	-	-	-	0.3	-	0.3	-	0.3	-	-	0.3	0.3	-
Alta.	0.3	0.1	0.6	0.6	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.5	0.5
B.C.	0.6	0.7	0.3	0.5	0.6	0.3	0.6	0.5	0.6	0.6	0.6	0.5	0.6	0.5	0.4	0.5
Canada <sup>1</sup>	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2

TABLE J.3 (Continued)

HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Province	Sedatives and Hypnotics - Other															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	17.5	7.3	16.7	12.7	17.2	21.9	17.9	13.9	17.4	14.7	17.3	13.3	17.4	14.7	17.3	13.3
P.E.I.	2.4	9.5	2.4	2.3	4.6	16.0	11.3	11.1	3.6	12.8	6.9	6.8	3.6	12.8	6.9	6.8
N.S.	8.2	8.5	14.0	11.9	10.7	8.9	15.1	10.9	9.5	8.7	14.6	11.4	9.5	8.7	14.6	11.4
N.B.	7.3	9.7	11.3	10.4	15.1	14.9	16.7	19.3	11.3	12.4	14.1	15.0	11.3	12.4	14.1	15.0
Que.	6.2	5.6	5.2	4.5	8.5	8.4	7.0	6.9	7.4	7.0	6.1	5.7	7.4	7.0	6.1	5.7
Ont.	6.9	7.6	7.0	7.6	10.1	10.3	10.3	10.5	8.6	9.0	8.7	9.1	8.6	9.0	8.7	9.1
Man.	3.4	2.8	3.8	4.6	7.4	7.1	5.9	8.7	5.5	5.0	4.9	6.7	5.5	5.0	4.9	6.7
Sask.	9.0	13.0	10.6	9.7	21.4	18.5	25.6	15.5	15.2	15.8	18.2	12.6	15.2	15.8	18.2	12.6
Alta.	9.8	11.3	12.2	9.8	16.1	16.5	14.0	16.5	12.9	13.9	13.1	13.1	12.9	13.9	13.1	13.1
B.C.	8.7	6.7	7.3	8.4	14.4	13.9	12.6	13.2	11.6	10.4	10.0	10.9	11.6	10.4	10.0	10.9
Canada <sup>1</sup>	7.4	7.4	7.6	7.3	11.3	11.2	10.9	10.8	9.4	9.4	9.3	9.1	9.4	9.4	9.3	9.1

Province	Psychotropic Agents - Antidepressants															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	16.4	13.4	19.5	14.9	25.0	17.5	20.6	20.8	20.7	15.5	20.0	17.9	20.7	15.5	20.0	17.9
P.E.I.	4.8	4.8	14.2	4.7	11.6	13.7	27.0	19.2	8.3	9.3	20.8	12.5	8.3	9.3	20.8	12.5
N.S.	12.0	11.8	10.0	13.5	15.5	22.0	21.4	19.2	13.8	17.1	15.9	16.5	13.8	17.1	15.9	16.5
N.B.	9.0	8.5	10.1	13.3	17.1	17.3	16.7	20.4	13.1	13.0	13.5	17.0	13.1	13.0	13.5	17.0
Que.	4.6	3.7	3.9	4.4	7.7	7.6	6.3	7.8	6.2	5.7	5.2	6.2	6.2	5.7	5.2	6.2
Ont.	8.8	7.6	7.9	9.3	15.1	14.6	14.8	16.6	12.0	11.3	11.5	13.1	12.0	11.3	11.5	13.1
Man.	7.6	10.8	7.1	9.5	15.9	17.5	14.5	17.2	11.9	14.3	10.9	13.5	11.9	14.3	10.9	13.5
Sask.	11.9	13.9	15.9	13.8	22.5	27.8	30.0	24.4	17.3	20.9	23.0	19.2	17.3	20.9	23.0	19.2
Alta.	15.3	15.4	17.3	14.2	30.5	31.2	32.6	25.0	22.8	23.3	24.9	19.6	22.8	23.3	24.9	19.6
B.C.	8.6	11.9	13.8	13.1	23.3	20.6	23.7	23.6	16.1	16.4	18.9	18.5	16.1	16.4	18.9	18.5
Canada <sup>1</sup>	8.6	8.5	9.1	9.4	16.0	15.9	16.1	16.4	12.4	12.3	12.7	13.0	12.4	12.3	12.7	13.0

TABLE J.3 (Continued)

HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Province	Psychotropic Agents - Phenothiazine Tranquilizers											
	Male					Female					Total	
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86		1986-87
Nfld.	2.8	3.4	2.8	3.3	5.0	2.7	-	1.6	3.9	3.0	1.4	2.4
P.E.I.	4.8	-	2.4	2.3	2.3	-	4.5	4.4	3.6	-	3.5	3.4
N.S.	3.4	2.7	3.3	2.6	4.9	4.1	2.5	2.2	4.2	3.4	2.9	2.4
N.B.	5.6	2.5	2.9	2.9	2.4	2.4	2.8	3.1	4.0	2.5	2.9	3.0
Que.	1.3	1.0	1.1	1.0	1.1	0.7	0.7	1.0	1.2	0.9	0.9	1.0
Ont.	2.2	2.2	2.9	2.3	2.7	2.7	2.5	2.9	2.5	2.5	2.7	2.6
Man.	3.4	3.1	4.1	1.4	3.2	2.9	4.4	4.4	3.3	3.0	4.3	2.9
Sask.	2.4	3.3	2.7	2.1	3.2	3.5	4.0	3.7	2.8	3.4	3.4	2.9
Alta.	2.6	3.9	4.3	2.7	5.1	4.2	3.7	3.0	3.8	4.0	4.0	2.9
B.C.	2.8	3.0	3.2	2.8	3.4	4.0	3.6	3.1	3.1	3.5	3.4	2.9
Canada <sup>1</sup>	2.3	2.2	2.7	2.1	2.7	2.5	2.4	2.5	2.5	2.4	2.5	2.3

Province	Psychotropic Agents - Benzodiazepine Tranquilizers											
	Male					Female					Total	
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86		1986-87
Nfld.	13.0	16.2	16.7	11.6	15.0	21.4	19.5	12.3	14.0	18.8	18.1	11.9
P.E.I.	14.5	4.8	19.0	21.1	11.6	11.4	18.0	28.8	13.0	8.2	18.5	25.1
N.S.	17.5	14.2	11.7	16.2	21.7	17.8	14.2	19.9	19.7	16.1	13.0	18.1
N.B.	20.1	21.6	21.0	22.9	29.3	26.5	30.6	27.1	24.8	24.1	25.9	25.1
Que.	6.9	6.5	7.2	6.7	7.0	7.9	7.6	9.0	7.0	7.2	7.4	7.9
Ont.	12.2	12.9	11.6	11.3	20.6	18.5	17.6	17.3	16.6	15.8	14.7	14.4
Man.	11.0	9.7	9.3	9.8	15.9	18.3	15.2	20.7	13.5	14.1	12.4	15.4
Sask.	16.1	13.6	7.7	12.1	17.9	19.7	21.3	18.6	17.0	16.7	14.6	15.4
Alta.	22.7	20.9	21.5	20.2	32.4	31.5	35.1	24.6	27.5	26.2	28.3	22.4
B.C.	16.2	14.6	17.6	14.4	30.0	23.7	27.2	25.5	23.3	19.2	22.5	20.1
Canada <sup>1</sup>	12.8	12.3	12.2	11.7	18.9	17.6	17.9	17.2	15.9	15.1	15.1	14.5



TABLE J.3 (Continued)

HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Province	Psychotropic Agents — Other Tranquillizers															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	4.5	1.1	7.2	6.6	5.5	8.2	6.5	9.1	5.0	4.7	6.9	7.9	5.0	4.7	6.9	7.9
P.E.I.	-	2.4	7.1	4.7	9.3	2.3	-	4.4	4.7	2.3	3.5	4.6	4.7	2.3	3.5	4.6
N.S.	5.1	4.7	3.7	3.3	5.2	4.8	3.8	3.8	5.2	4.8	3.7	3.5	5.2	4.8	3.7	3.5
N.B.	3.4	3.0	2.9	5.4	3.7	5.2	6.4	3.9	3.5	4.1	4.7	4.7	3.5	4.1	4.7	4.7
Que.	2.1	2.1	1.5	1.3	2.6	2.8	1.9	2.4	2.4	2.5	1.7	1.9	2.4	2.5	1.7	1.9
Ont.	2.8	3.2	3.1	2.9	3.8	3.3	3.8	4.7	3.3	3.3	3.4	3.8	3.3	3.3	3.4	3.8
Man.	0.3	0.6	1.4	2.2	1.1	1.8	1.0	2.3	0.7	1.2	1.2	2.2	0.7	1.2	1.2	2.2
Sask.	5.4	6.5	3.2	3.5	8.2	6.7	9.2	4.9	6.8	6.6	6.3	4.2	6.8	6.6	6.3	4.2
Alta.	1.8	1.6	1.7	1.5	3.2	3.4	2.9	2.7	2.5	2.5	2.3	2.1	2.5	2.5	2.3	2.1
B.C.	3.3	2.6	2.6	2.6	5.0	3.8	4.9	3.4	4.1	3.2	3.8	3.0	4.1	3.2	3.8	3.0
Canada <sup>1</sup>	2.7	2.7	2.5	2.4	3.7	3.5	3.5	3.7	3.2	3.1	3.0	3.1	3.2	3.1	3.0	3.1

Province	Psychotropic Agents — Other															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	2.3	3.9	2.8	1.7	1.7	2.2	1.6	1.1	2.0	3.0	2.2	1.4	2.0	3.0	2.2	1.4
P.E.I.	2.4	2.4	-	2.3	2.3	2.3	2.3	4.4	2.4	2.3	1.2	3.4	2.4	2.3	1.2	3.4
N.S.	3.8	1.4	3.7	2.3	2.3	3.8	1.9	1.6	3.0	2.6	2.8	1.9	3.0	2.6	2.8	1.9
N.B.	4.7	3.0	1.7	2.9	2.4	2.4	1.2	0.8	3.5	2.7	1.4	1.8	3.5	2.7	1.4	1.8
Que.	1.2	1.5	1.3	1.0	1.1	1.2	1.3	1.9	1.2	1.3	1.3	1.5	1.2	1.3	1.3	1.5
Ont.	3.3	2.9	3.0	2.7	2.3	2.9	3.0	2.5	2.8	2.9	3.0	2.6	2.8	2.9	3.0	2.6
Man.	2.8	1.4	1.1	0.5	0.5	0.8	1.0	1.5	1.6	1.1	1.1	1.1	1.6	1.1	1.1	1.1
Sask.	1.5	3.0	7.1	2.4	1.5	2.9	2.3	2.9	1.5	2.9	4.7	2.6	1.5	2.9	4.7	2.6
Alta.	4.0	4.5	3.2	2.9	3.8	2.9	4.3	3.0	3.9	3.7	3.7	3.0	3.9	3.7	3.7	3.0
B.C.	4.0	2.3	2.9	3.5	2.4	2.5	2.8	2.9	3.2	2.4	2.9	3.2	3.2	2.4	2.9	3.2
Canada <sup>1</sup>	2.8	2.5	2.6	2.2	2.0	2.3	2.4	2.3	2.4	2.4	2.5	2.3	2.4	2.4	2.5	2.3



TABLE J.3 (Concluded)

HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

TOTAL ALL CAUSES:

Province	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	115.8	94.7	111.7	100.3	148.2	161.7	141.9	142.1	132.2	128.6	127.0	121.5
P.E.I.	96.9	85.9	99.5	126.5	97.4	105.0	162.2	161.9	97.2	95.7	131.6	144.6
N.S.	94.7	91.6	100.3	93.1	122.9	116.2	116.0	111.1	109.2	104.3	108.4	102.4
N.B.	103.7	90.2	90.8	100.8	132.7	124.5	138.0	140.0	118.6	107.8	115.0	121.0
Que.	74.3	71.1	73.2	74.9	75.2	74.6	71.3	78.2	74.8	72.9	72.2	76.6
Ont.	89.8	87.1	88.7	98.8	126.0	117.4	119.4	132.3	108.5	102.8	104.6	116.1
Man.	91.8	83.1	78.9	79.0	135.9	139.3	123.3	139.9	114.6	112.1	101.8	110.3
Sask.	118.2	136.0	135.8	121.2	185.5	195.8	207.4	187.2	152.2	166.2	172.1	154.6
Alta.	136.8	122.3	136.4	114.6	194.3	200.7	204.8	168.9	165.4	161.4	170.6	141.8
B.C.	105.2	96.0	106.4	107.1	170.6	147.4	164.7	162.4	138.6	122.3	136.2	135.4
Canada <sup>1</sup>	94.0	89.1	93.3	94.8	126.4	121.4	123.6	126.6	110.7	105.7	108.9	111.1

Notes: See corresponding notes, Table J.1.

Source: Data were obtained from the Canadian Centre for Health Information, Statistics Canada.

TABLE J.4

### HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

#### MENTAL DISORDERS:

Age	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	-	2	1	-	-	-	-	2	-	2	1	2
5-14	2	4	7	6	3	4	3	7	5	8	10	13
15-19	92	75	101	76	33	39	28	26	125	114	129	102
20-24	138	127	131	111	63	48	33	39	201	175	164	150
25-34	185	137	129	164	83	91	91	99	268	228	220	263
35-44	54	44	62	58	61	56	64	83	115	100	126	141
45-64	61	53	59	63	103	94	109	124	164	147	168	187
65-74	28	31	37	33	47	61	53	60	75	92	90	93
75+	23	11	27	22	50	42	57	51	73	53	84	73
Total <sup>1</sup>	583	484	554	533	443	435	438	491	1,026	919	992	1,024

Age	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	-	-	1	1	-	2	2	-	-	2	3	1
5-14	16	9	14	12	5	5	9	3	21	14	23	15
15-19	113	92	130	131	38	39	51	86	151	131	181	217
20-24	252	238	249	345	149	123	131	153	401	361	380	498
25-34	499	522	606	793	291	344	366	479	790	866	972	1272
35-44	163	206	244	287	207	194	216	285	370	400	460	572
45-64	115	146	131	157	189	201	241	241	304	347	372	398
65-74	28	21	24	30	35	38	40	37	63	59	64	67
75+	7	7	8	16	15	14	23	23	22	21	31	39
Total <sup>1</sup>	1,193	1,241	1,407	1,772	929	960	1,079	1,307	2,122	2,201	2,486	3,079

TABLE J.4 (Continued)

HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

MENTAL DISORDERS (Cont'd):

Age	Nondependent Abuse of Drugs <sup>2</sup>															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	-	-	4	-	-	1	-	1	-	1	1	-	-	1	5	-
5-14	10	16	20	15	17	32	41	32	17	32	36	41	27	33	52	56
15-19	118	106	130	117	98	79	106	96	79	106	96	96	216	185	236	213
20-24	125	106	152	109	71	78	66	59	78	66	66	59	196	184	218	168
25-34	178	230	239	189	136	150	173	178	136	150	173	178	314	380	412	367
35-44	84	92	92	95	102	91	92	106	102	91	92	106	186	183	184	201
45-64	61	65	54	63	85	107	93	98	85	107	93	98	146	172	147	161
65-74	21	17	12	18	30	38	37	29	30	38	37	29	51	55	49	47
75+	16	16	18	18	15	26	21	25	15	26	21	25	31	42	39	43
Total <sup>1</sup>	613	648	721	624	554	587	621	632	554	587	621	632	1,167	1,235	1,342	1,256

COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM:

Age	Drug Dependence															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	...	...	...	...	-	-	-	-	-	-	-	-	-	-	-	-
5-14	...	...	...	...	9	8	8	19	9	8	8	19	9	8	8	19
15-19	...	...	...	...	15	33	35	38	15	33	35	38	15	33	35	38
20-24	...	...	...	...	24	35	55	57	24	35	55	57	24	35	55	57
25-34	...	...	...	...	-	1	1	4	-	1	1	4	-	1	1	4
35-44	...	...	...	...	-	-	-	-	-	-	-	-	-	-	-	-
45-64	...	...	...	...	-	-	-	-	-	-	-	-	-	-	-	-
65-74	...	...	...	...	-	-	-	-	-	-	-	-	-	-	-	-
75+	...	...	...	...	-	-	-	-	-	-	-	-	-	-	-	-
Total <sup>1</sup>	...	...	...	...	48	77	99	118	48	77	99	118	48	77	99	118

TABLE J.4 (Continued)

HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

COMPLICATIONS OF PREGNANCY, CHILD BIRTH AND THE PUERPERIUM (Cont'd):

Age	Suspected Damage to the Fetus from Drugs														
	Male					Female					Total				
	1984-85	1985-86	1986-87	1987-88	1988-89	1984-85	1985-86	1986-87	1987-88	1988-89	1984-85	1985-86	1986-87	1987-88	1988-89
0-4	...	...	...	...	...	-	-	-	-	-	-	-	-	-	-
5-14	...	...	...	...	...	-	-	1	-	-	-	-	-	1	-
15-19	...	...	...	...	...	-	1	-	3	-	-	-	-	1	3
20-24	...	...	...	...	...	-	1	4	4	-	-	-	-	1	4
25-34	...	...	...	...	...	2	1	4	4	-	2	1	4	1	4
35-44	...	...	...	...	...	-	1	-	-	-	-	-	-	1	-
45-64	...	...	...	...	...	-	1	-	-	-	-	-	-	1	-
65-74	...	...	...	...	...	-	-	-	-	-	-	-	-	-	-
75+	...	...	...	...	...	-	-	-	-	-	-	-	-	-	-
Total <sup>1</sup>	...	...	...	...	...	2	4	5	7	...	2	4	5	7	7

CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD:

Age	Drug Withdrawal Syndrome in Newborn													
	Male					Female					Total			
	1984-85	1985-86	1986-87	1987-88	1988-89	1984-85	1985-86	1986-87	1987-88	1988-89	1984-85	1985-86	1986-87	1987-88
0-4	24	27	42	37	...	35	17	19	48	...	59	44	61	85
5-14	-	-	1	-	-	-	-	-	-	-	-	-	1	-
15-19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25-34	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35-44	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45-64	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65-74	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total <sup>1</sup>	24	27	43	37	...	35	17	19	48	...	59	44	62	85



TABLE J.4 (Continued)

HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES:

Age	Analgesics, Antipyretics and Antirheumatics - Opiates and Related Narcotics												
	Male			Female									
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	Total
0-4	13	20	15	16	26	13	12	19	39	33	27	35	35
5-14	3	3	2	5	9	7	4	11	12	10	6	16	16
15-19	22	11	14	21	31	20	26	26	53	31	40	47	47
20-24	27	22	15	15	37	26	25	26	64	48	40	41	41
25-34	42	40	47	40	44	44	47	55	86	84	94	95	95
35-44	19	18	26	19	35	34	32	34	54	52	58	53	53
45-64	23	22	17	20	30	27	30	36	53	49	47	56	56
65-74	9	10	9	10	11	13	10	18	20	23	19	28	28
75+	7	12	9	13	4	12	14	18	11	24	23	31	31
Total <sup>1</sup>	165	158	154	159	227	196	200	243	392	354	354	402	402

Age	Analgesics, Antipyretics and Antirheumatics - Salicylates												
	Male			Female									
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	Total
0-4	315	215	143	117	310	216	149	88	625	431	292	205	205
5-14	76	62	38	27	262	215	196	152	338	277	234	179	179
15-19	232	189	211	194	645	507	481	524	877	696	692	718	718
20-24	173	132	102	120	274	230	194	185	447	362	296	305	305
25-34	165	132	136	145	277	225	252	230	442	357	388	375	375
35-44	89	98	75	87	167	148	134	147	256	246	209	234	234
45-64	99	78	89	57	169	152	122	153	268	230	211	210	210
65-74	40	19	26	30	69	66	69	47	109	85	95	77	77
75+	31	17	24	21	61	43	45	57	92	60	69	78	78
Total <sup>1</sup>	1,220	942	844	798	2,234	1,802	1,642	1,583	3,454	2,744	2,486	2,381	2,381

TABLE J.4 (Continued)

HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd)

Age	Analgesics, Antipyretics and Antirheumatics - Other												
	Male		Female		Total								
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	Total
0-4	148	154	176	223	143	147	181	170	291	301	357	393	393
5-14	31	19	31	33	134	160	178	212	165	179	209	245	245
15-19	138	137	195	215	389	467	605	705	527	604	800	920	920
20-24	104	135	165	192	193	256	283	313	297	391	448	505	505
25-34	148	178	193	234	266	304	357	398	414	482	550	632	632
35-44	87	99	90	110	184	191	225	210	271	290	315	320	320
45-64	89	73	87	90	132	148	147	138	221	221	234	228	228
65-74	21	12	22	16	48	35	56	42	69	47	78	58	58
75+	16	23	14	26	41	35	38	42	57	58	52	68	68
Total <sup>1</sup>	782	830	973	1,139	1,530	1,743	2,070	2,230	2,312	2,573	3,043	3,369	3,369

Age	Sedatives and Hypnotics - Barbiturates												
	Male		Female		Total								
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	Total
0-4	24	11	23	8	22	17	15	6	46	28	38	14	14
5-14	9	8	5	10	20	20	18	9	29	28	23	19	19
15-19	25	23	24	14	49	55	23	25	74	78	47	39	39
20-24	41	27	21	34	53	38	27	32	94	65	48	66	66
25-34	67	77	75	55	104	103	98	74	171	180	173	129	129
35-44	38	41	39	39	66	60	57	32	104	101	96	71	71
45-64	69	41	32	30	66	71	46	52	135	112	78	82	82
65-74	12	13	15	2	19	18	18	13	31	31	33	15	15
75+	10	11	8	7	24	20	17	11	34	31	25	18	18
Total <sup>1</sup>	295	252	242	199	423	402	319	254	718	654	561	453	453

TABLE J.4 (Continued)

HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Sedatives and Hypnotics - Chloral Hydrate Group

Age	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	4	1	2	2	1	1	2	2	1	1	2	2	5	2	4	2
5-14	1	1	2	-	1	1	2	2	4	2	2	3	2	2	4	-
15-19	1	2	-	-	4	2	2	2	4	2	2	3	5	4	2	3
20-24	1	3	2	5	4	2	2	2	8	7	17	11	13	5	4	6
25-34	5	4	4	8	8	7	7	5	6	7	5	13	9	17	21	19
35-44	3	10	8	3	6	7	7	11	8	6	11	5	9	16	13	16
45-64	1	10	4	6	8	6	6	8	7	1	4	3	10	15	11	7
65-74	3	3	1	4	7	1	1	3	2	3	4	2	5	4	1	7
75+	3	2	-	3	2	3	4	2	41	30	45	38	63	66	68	69
Total <sup>1</sup>	22	36	23	31	41	30	45	38								

Sedatives and Hypnotics - Methaqualone Compounds

Age	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5-14	-	-	1	-	1	-	-	-	1	-	-	1	1	-	1	1
15-19	2	3	1	1	2	2	1	2	2	2	1	2	4	5	2	3
20-24	5	2	2	6	2	2	1	1	9	4	6	7	7	4	3	7
25-34	10	9	8	4	9	4	6	7	11	9	6	2	19	13	14	11
35-44	5	4	1	11	9	2	6	2	6	3	4	2	14	6	7	13
45-64	2	5	3	2	6	3	4	2	1	1	2	4	8	8	7	4
65-74	-	-	1	-	1	-	2	1	1	1	2	1	1	1	3	4
75+	-	-	-	1	1	1	2	1	31	14	22	20	55	37	39	45
Total <sup>1</sup>	24	23	17	25	31	14	22	20								



TABLE J.4 (Continued)

HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Age	Sedatives and Hypnotics - Other											
	Male			Female			Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	57	45	57	52	55	44	49	56	112	89	106	108
5-14	16	15	21	24	31	36	32	32	47	51	53	56
15-19	43	51	49	47	87	94	82	82	130	145	131	129
20-24	57	76	63	70	105	79	119	105	162	155	182	175
25-34	154	143	155	151	249	237	228	248	403	380	383	399
35-44	112	100	106	91	184	205	201	210	296	305	307	301
45-64	111	120	121	103	210	194	187	182	321	314	308	285
65-74	42	46	43	59	52	75	57	58	94	121	100	117
75+	39	46	50	57	45	68	57	49	84	114	107	106
Total <sup>1</sup>	631	642	665	654	1,018	1,032	1,012	1,022	1,649	1,674	1,677	1,676

Age	Psychotropic Agents - Antidepressants											
	Male			Female			Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	47	45	51	46	33	38	36	38	80	83	87	84
5-14	16	15	18	23	46	55	37	33	62	70	55	56
15-19	45	63	64	68	137	130	136	140	182	193	200	208
20-24	95	94	106	100	180	184	153	157	275	278	259	257
25-34	230	243	225	264	390	434	471	484	620	677	696	748
35-44	147	107	183	182	322	303	338	364	469	410	521	546
45-64	128	138	109	122	254	245	240	236	382	383	349	358
65-74	19	20	28	28	55	53	57	57	74	73	85	85
75+	8	10	16	9	25	16	32	43	33	26	48	52
Total <sup>1</sup>	735	735	800	842	1,442	1,458	1,500	1,552	2,177	2,193	2,300	2,394



TABLE J.4 (Continued)

HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Age	Psychotropic Agents - Phenothiazine Tranquillizers											
	Male						Female					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	13	22	12	12	11	12	11	12	24	34	23	24
5-14	8	3	6	7	5	3	7	7	13	6	13	14
15-19	20	17	19	21	17	30	28	21	37	47	47	42
20-24	35	32	35	31	40	39	21	25	75	71	56	56
25-34	56	62	82	47	85	62	70	72	141	124	152	119
35-44	25	29	45	27	28	47	36	42	53	76	81	69
45-64	19	17	20	29	42	27	30	39	61	44	50	68
65-74	14	6	8	5	13	5	10	10	27	11	18	15
75+	6	6	6	4	4	7	9	9	10	13	15	13
Total <sup>1</sup>	196	194	233	183	245	232	222	237	441	426	455	420

Age	Psychotropic Agents - Benzodiazepine Tranquillizers											
	Male						Female					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	121	115	108	102	82	104	97	87	203	219	205	189
5-14	45	34	23	21	60	62	60	43	105	96	83	64
15-19	80	69	80	71	168	136	139	118	248	205	219	189
20-24	118	129	105	99	178	157	166	158	296	286	271	257
25-34	282	306	292	262	460	390	416	428	742	696	708	690
35-44	192	198	216	219	356	362	337	371	548	560	553	590
45-64	182	147	164	184	295	297	318	288	477	444	482	472
65-74	37	43	49	47	68	67	73	74	105	110	122	121
75+	37	30	35	42	40	44	58	56	77	74	93	98
Total <sup>1</sup>	1,094	1,071	1,072	1,047	1,707	1,619	1,664	1,623	2,801	2,690	2,736	2,670

TABLE J.4 (Continued)

HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Age	Psychotropic Agents - Other Tranquilizers											
	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	14	18	15	19	20	20	20	19	34	38	35	38
5-14	8	10	2	6	5	15	19	10	13	25	21	16
15-19	18	18	19	13	31	27	24	30	49	45	43	43
20-24	27	33	28	17	27	28	38	30	54	61	66	47
25-34	86	72	72	81	69	83	90	91	155	155	162	172
35-44	35	30	33	39	74	64	49	70	109	94	82	109
45-64	26	35	19	26	68	49	45	59	94	84	64	85
65-74	6	8	13	5	21	19	24	22	27	27	37	27
75+	9	11	23	12	19	16	19	18	28	27	42	30
Total <sup>1</sup>	229	235	224	218	334	321	328	349	563	556	552	567

Age	Psychotropic Agents - Other											
	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	32	32	40	25	20	39	33	19	52	71	73	44
5-14	11	16	16	10	10	11	12	18	21	27	28	28
15-19	52	43	55	51	27	33	41	35	79	76	96	86
20-24	48	42	32	30	29	29	19	20	68	71	51	50
25-34	55	40	42	26	44	27	40	34	99	67	82	60
35-44	24	14	14	23	17	32	24	33	41	46	38	56
45-64	9	16	17	22	23	28	23	37	32	44	40	59
65-74	9	6	9	9	11	8	25	14	20	14	34	23
75+	3	7	4	4	8	5	7	8	11	12	11	12
Total <sup>1</sup>	243	216	229	200	180	212	224	218	423	428	453	418

TABLE J.4 (Concluded)

HOSPITAL SEPARATIONS FOR DRUG-RELATED CASES BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

TOTAL ALL CAUSES:

Age	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	812	707	690	660	758	671	627	564	1,570	1,378	1,317	1,224
5-14	252	215	207	199	609	611	609	579	861	826	816	778
15-19	1,001	899	1,092	1,040	1,765	1,668	1,782	1,938	2,766	2,567	2,874	2,978
20-24	1,246	1,198	1,208	1,284	1,411	1,353	1,313	1,345	2,657	2,551	2,521	2,629
25-34	2,162	2,195	2,305	2,463	2,541	2,541	2,781	2,949	4,703	4,736	5,086	5,412
35-44	1,077	1,090	1,234	1,290	1,818	1,798	1,817	2,006	2,895	2,888	3,051	3,296
45-64	995	966	926	974	1,680	1,650	1,646	1,690	2,675	2,616	2,572	2,664
65-74	289	255	297	296	487	497	531	488	776	752	828	784
75+	215	209	242	255	354	352	403	413	569	561	645	668
<b>Total<sup>1</sup></b>	<b>8,049</b>	<b>7,734</b>	<b>8,201</b>	<b>8,461</b>	<b>11,423</b>	<b>11,141</b>	<b>11,509</b>	<b>11,972</b>	<b>19,472</b>	<b>18,875</b>	<b>19,710</b>	<b>20,433</b>

Notes: See corresponding notes, Table J.1.

Source: Data were obtained from the Canadian Centre for Health Information, Statistics Canada.



TABLE J.5

AGE- AND SEX-SPECIFIC HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, CANADA<sup>1</sup>, 1984-85 TO 1987-88

## MENTAL DISORDERS:

Age	Drug Psychoses															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	-	0.2	0.1	-	-	-	-	0.2	-	-	-	0.2	-	-	0.1	0.1
5-14	0.1	0.2	0.4	0.3	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.4	0.1	0.2	0.3	0.4
15-19	8.9	7.5	10.2	7.8	3.3	4.1	3.0	2.8	3.3	4.1	3.0	2.8	6.2	5.8	6.7	5.3
20-24	11.6	10.8	11.6	10.0	5.4	4.1	2.9	3.6	5.4	4.1	2.9	3.6	8.5	7.5	7.3	6.8
25-34	8.4	6.2	5.7	7.2	3.8	4.0	4.0	4.3	3.8	4.0	4.0	4.3	6.1	5.1	4.9	5.7
35-44	3.2	2.5	3.4	3.1	3.6	3.2	3.5	4.4	3.6	3.2	3.5	4.4	3.4	2.8	3.5	3.7
45-64	2.6	2.2	2.5	2.6	4.2	3.8	4.4	5.0	4.2	3.8	4.4	5.0	3.4	3.0	3.4	3.8
65-74	6.2	2.9	6.8	5.4	8.2	6.7	8.7	7.5	5.5	6.9	5.8	6.4	4.8	5.7	5.4	5.5
75+	4.7	3.9	4.4	4.2	3.5	3.4	3.4	3.8	8.2	6.7	8.7	7.5	7.5	5.2	8.0	6.7
Total <sup>1</sup>									3.5	3.4	3.4	3.8	4.1	3.7	3.9	4.0

Age	Drug Dependence															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	-	-	0.1	0.1	-	0.2	0.2	-	-	0.2	0.2	-	-	0.1	0.2	0.1
5-14	0.9	0.5	0.8	0.7	0.3	0.3	0.5	0.2	0.3	0.3	0.5	0.2	0.6	0.4	0.6	0.4
15-19	11.0	9.2	13.2	13.4	3.8	4.1	5.4	9.2	3.8	4.1	5.4	9.2	7.5	6.7	9.4	11.4
20-24	21.2	20.3	22.0	31.2	12.7	10.6	11.7	14.1	12.7	10.6	11.7	14.1	17.0	15.5	16.8	22.7
25-34	22.8	23.5	26.9	34.6	13.2	15.3	16.0	20.7	13.2	15.3	16.0	20.7	17.9	19.4	21.4	27.6
35-44	9.6	11.7	13.4	15.2	12.2	11.0	11.9	15.1	12.2	11.0	11.9	15.1	10.9	11.4	12.6	15.2
45-64	4.9	6.1	5.5	6.5	7.7	8.2	9.7	9.6	7.7	8.2	9.7	9.6	6.3	7.2	7.6	8.1
65-74	4.0	2.9	3.2	3.9	4.1	4.3	4.4	3.9	4.1	4.3	4.4	3.9	4.0	3.7	3.9	3.9
75+	1.9	1.8	2.0	3.9	2.5	2.2	3.5	3.4	2.5	2.2	3.5	3.4	2.2	2.1	3.0	3.6
Total <sup>1</sup>	9.7	10.0	11.2	14.0	7.4	7.5	8.4	10.1	7.4	7.5	8.4	10.1	8.5	8.7	9.8	12.0



TABLE J.5 (Continued)

AGE- AND SEX-SPECIFIC HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, CANADA<sup>1</sup>, 1984-85 TO 1987-88

MENTAL DISORDERS (Cont'd):

Age	Nondependent Abuse of Drugs <sup>2</sup>															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	-	-	0.4	-	-	0.1	0.1	-	-	0.1	0.1	-	-	0.1	0.3	-
5-14	0.5	0.9	1.1	0.8	1.0	1.0	1.8	2.3	1.0	1.0	1.8	2.3	0.7	0.9	1.4	1.6
15-19	11.4	10.6	13.2	11.9	9.9	8.3	11.2	10.3	9.9	8.3	11.2	10.3	10.7	9.5	12.2	11.1
20-24	10.5	9.1	13.4	9.9	6.0	6.7	5.9	7.7	6.0	6.0	5.4	7.7	8.3	7.9	9.7	7.7
25-34	8.1	10.4	10.6	8.3	6.2	6.7	7.6	7.7	6.2	6.2	7.6	7.7	7.1	8.5	9.1	8.0
35-44	4.9	5.2	5.0	5.0	6.0	5.2	5.1	5.6	6.0	5.2	5.1	5.6	5.5	5.2	5.0	5.3
45-64	2.6	2.7	2.2	2.6	3.5	4.4	3.8	3.9	3.5	4.4	3.8	3.9	3.0	3.6	3.0	3.3
65-74	3.0	2.4	1.6	2.4	3.5	4.3	4.1	3.1	3.5	4.3	4.1	3.1	3.3	3.4	3.0	2.8
75+	4.3	4.2	4.6	4.4	2.5	4.1	3.2	3.7	2.5	4.1	3.2	3.7	3.2	4.1	3.7	4.0
Total <sup>2</sup>	5.0	5.2	5.8	4.9	4.4	4.6	4.8	4.9	4.4	4.6	4.8	4.9	4.7	4.9	5.3	4.9

COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM:

Age	Drug Dependence															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	...	...	...	...	-	-	-	-	-	-	-	-	-	-	-	-
5-14	...	...	...	...	-	-	-	-	0.9	0.8	0.8	2.0	0.4	0.4	0.4	1.0
15-19	...	...	...	...	1.3	2.8	3.1	3.5	1.3	2.8	3.1	3.5	0.6	1.4	1.6	1.7
20-24	...	...	...	...	1.1	1.6	2.4	2.5	1.1	1.6	2.4	2.5	0.5	0.8	1.2	1.2
25-34	...	...	...	...	-	0.1	0.1	0.2	-	0.1	0.1	0.2	-	..	..	0.1
35-44	...	...	...	...	-	-	-	-	-	-	-	-	-	-	-	-
45-64	...	...	...	...	-	-	-	-	-	-	-	-	-	-	-	-
65-74	...	...	...	...	-	-	-	-	-	-	-	-	-	-	-	-
75+	...	...	...	...	-	-	-	-	-	-	-	-	-	-	-	-
Total <sup>3</sup>	...	...	...	...	0.4	0.6	0.8	0.9	0.4	0.6	0.8	0.9	0.2	0.3	0.4	0.5

TABLE J.5 (Continued)

AGE- AND SEX-SPECIFIC HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, CANADA<sup>1</sup>, 1984-85 TO 1987-88

COMPLICATIONS OF PREGNANCY, CHILD BIRTH AND THE PUERPERIUM (Cont'd)

Age	Suspected Damage to the Fetus from Drugs							
	Male		Female		Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	...	...	...	...	..	..	..	..
5-14	...	...	...	...	..	..	..	..
15-19	...	...	...	...	..	..	..	..
20-24	...	...	...	...	0.1	..	..	0.1
25-34	...	...	...	...	0.1	0.3	..	0.1
35-44	...	...	...	...	0.1	0.2	..	0.1
45-64	...	...	...	...	..	..	..	..
65-74	...	...	...	...	..	..	..	..
75+	...	...	...	...	..	..	..	..
Total <sup>1</sup>	...	...	...	...	..	..	..	0.1

CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD:

Age	Drug Withdrawal Syndrome in Newborn							
	Male		Female		Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	2.6	2.9	4.5	3.9	3.9	3.2	2.4	4.7
5-14	-	-	0.1	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-
20-24	-	-	-	-	-	-	-	-
25-34	-	-	-	-	-	-	-	-
35-44	-	-	-	-	-	-	-	-
45-64	-	-	-	-	-	-	-	-
65-74	-	-	-	-	-	-	-	-
75+	-	-	-	-	-	-	-	-
Total <sup>1</sup>	0.2	0.2	0.3	0.3	0.3	0.1	0.1	0.4
					0.2	0.2	0.2	0.3

TABLE J.5 (Continued)

AGE- AND SEX-SPECIFIC HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, CANADA<sup>1</sup>, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES:

Age	Analgesics, Antipyretics and Antirheumatics — Opiates and Related Narcotics															
	Male							Female							Total	
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	1.4	2.1	1.6	1.7	2.9	1.5	1.4	2.1	1.8	1.5	1.4	2.1	2.1	2.1	1.8	1.9
5-14	0.2	0.2	0.1	0.3	0.5	0.4	0.2	0.6	0.3	0.4	0.2	0.6	0.3	0.3	0.2	0.4
15-19	2.1	1.1	1.4	2.1	3.1	2.1	2.8	2.8	2.6	2.1	2.8	2.4	2.6	1.6	2.1	2.5
20-24	2.3	1.9	1.3	1.4	3.2	2.2	2.2	2.4	2.7	2.2	2.2	2.4	2.7	2.1	1.8	1.9
25-34	1.9	1.8	2.1	1.7	2.0	2.0	2.0	2.4	2.0	2.0	2.0	2.4	2.0	1.9	2.1	2.1
35-44	1.1	1.0	1.4	1.0	2.1	1.9	1.8	1.8	1.6	1.9	1.8	1.8	1.6	1.5	1.6	1.4
45-64	1.0	0.9	0.7	0.8	1.2	1.1	1.2	1.4	1.1	1.1	1.2	1.4	1.1	1.0	1.0	1.1
65-74	1.3	1.4	1.2	1.3	1.3	1.5	1.1	1.9	1.3	1.5	1.1	1.9	1.3	1.4	1.2	1.6
75+	1.9	3.1	2.3	3.2	0.7	1.9	2.1	2.6	1.1	1.9	2.1	2.6	1.1	2.4	2.2	2.8
Total <sup>1</sup>	1.3	1.3	1.2	1.3	1.8	1.5	1.6	1.9	1.6	1.5	1.6	1.9	1.6	1.4	1.4	1.6

Age	Analgesics, Antipyretics and Antirheumatics — Salicylates															
	Male							Female							Total	
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	33.6	23.0	15.4	12.5	34.8	24.3	16.8	9.9	34.2	23.6	16.1	11.2	34.2	23.6	16.1	11.2
5-14	4.1	3.3	2.1	1.5	14.8	12.2	11.2	8.7	9.3	7.7	6.5	5.0	9.3	7.7	6.5	5.0
15-19	22.5	18.9	21.4	19.8	65.2	53.1	51.0	56.3	43.4	35.7	35.8	37.6	43.4	35.7	35.8	37.6
20-24	14.6	11.3	9.0	10.9	23.3	19.8	17.3	17.0	18.9	15.5	13.1	13.9	18.9	15.5	13.1	13.9
25-34	7.5	5.9	6.0	6.3	12.5	10.0	11.0	9.9	10.0	8.0	8.6	8.1	10.0	8.0	8.6	8.1
35-44	5.2	5.5	4.1	4.6	9.9	8.4	7.4	7.8	7.5	7.0	5.7	6.2	7.5	7.0	5.7	6.2
45-64	4.2	3.3	3.7	2.3	6.9	6.2	4.9	6.1	5.6	4.8	4.3	4.3	5.6	4.8	4.3	4.3
65-74	5.7	2.6	3.5	3.9	8.1	7.5	7.6	5.0	7.0	5.3	5.8	4.5	7.0	5.3	5.8	4.5
75+	8.4	4.4	6.1	5.1	10.0	6.8	6.9	8.4	9.4	5.9	6.6	7.2	9.4	5.9	6.6	7.2
Total <sup>1</sup>	9.9	7.6	6.7	6.3	17.7	14.1	12.8	12.2	13.8	10.9	9.8	9.3	13.8	10.9	9.8	9.3



TABLE J.5 (Continued)

AGE- AND SEX-SPECIFIC HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, CANADA<sup>1</sup>, 1984-85 TO 1987-88

## POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

## Analgesics, Antipyretics and Antirheumatics - Other

Age	Male			Female			Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	15.8	16.4	18.9	23.8	16.0	16.5	20.4	19.1	15.9	16.5	19.7	21.5
5-14	1.7	1.0	1.7	1.8	7.6	9.1	10.2	12.1	4.6	5.0	5.8	6.8
15-19	13.4	13.7	19.7	21.9	39.3	48.9	64.2	75.7	26.1	30.9	41.4	48.1
20-24	8.8	11.5	14.6	17.4	16.4	22.1	25.2	28.8	12.6	16.8	19.8	23.0
25-34	6.8	8.0	8.6	10.2	12.0	13.5	15.6	17.2	9.4	10.8	12.1	13.7
35-44	5.1	5.6	4.9	5.8	10.9	10.9	12.4	11.1	8.0	8.2	8.6	8.5
45-64	3.8	3.1	3.6	3.7	5.4	6.0	5.9	5.5	4.6	4.6	4.8	4.6
65-74	3.0	1.7	3.0	2.1	5.6	4.0	6.1	4.5	4.4	2.9	4.7	3.4
75+	4.3	6.0	3.5	6.4	6.7	5.6	5.8	6.2	5.8	5.7	5.0	6.2
Total <sup>1</sup>	6.3	6.7	7.8	9.0	12.1	13.7	16.1	17.2	9.3	10.2	12.0	13.1

## Sedatives and Hypnotics - Barbiturates

Age	Male			Female			Total					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	2.6	1.2	2.5	0.9	2.5	1.9	1.7	0.7	2.5	1.5	2.1	0.8
5-14	0.5	0.4	0.3	0.5	1.1	1.1	1.0	0.5	0.8	0.8	0.6	0.5
15-19	2.4	2.3	2.4	1.4	4.9	5.8	2.4	2.7	3.7	4.0	2.4	2.0
20-24	3.5	2.3	1.9	3.1	4.5	3.3	2.4	2.9	4.0	2.8	2.1	3.0
25-34	3.1	3.5	3.3	2.4	4.7	4.6	4.3	3.2	3.9	4.0	3.8	2.8
35-44	2.2	2.3	2.1	2.1	3.9	3.4	3.1	1.7	3.1	2.9	2.6	1.9
45-64	2.9	1.7	1.3	1.2	2.7	2.9	1.9	2.1	2.8	2.3	1.6	1.7
65-74	1.7	1.8	2.0	0.3	2.2	2.0	2.0	1.4	2.0	1.9	2.0	0.9
75+	2.7	2.9	2.0	1.7	3.9	3.2	2.6	1.6	3.5	3.1	2.4	1.7
Total <sup>1</sup>	2.4	2.0	1.9	1.6	3.3	3.2	2.5	2.0	2.9	2.6	2.2	1.8



TABLE J.5 (Continued)

AGE- AND SEX-SPECIFIC HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, CANADA<sup>1</sup>, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Age	Sedatives and Hypnotics - Chloral Hydrate Group															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	0.4	0.1	0.2	0.2	0.1	0.1	0.2	-	0.3	0.1	0.2	-	0.3	0.1	0.2	0.1
5-14	0.1	0.1	0.1	-	0.1	0.1	0.1	-	0.1	0.1	0.1	-	0.1	0.1	0.1	-
15-19	0.1	0.2	-	-	0.4	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.2
20-24	0.1	0.3	0.2	0.5	0.3	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3
25-34	0.2	0.2	0.2	0.3	0.4	0.3	0.7	0.5	0.3	0.2	0.5	0.3	0.3	0.2	0.5	0.4
35-44	0.2	0.6	0.4	0.2	0.4	0.4	0.3	0.7	0.3	0.4	0.3	0.7	0.3	0.3	0.4	0.4
45-64	..	0.4	0.2	0.2	0.3	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
65-74	0.4	0.4	0.1	0.5	0.8	0.1	-	0.3	0.6	0.1	-	0.3	0.6	0.2	0.1	0.4
75+	0.8	0.5	-	0.7	0.3	0.5	0.6	0.3	0.5	0.5	0.6	0.3	0.5	0.5	0.4	0.5
Total <sup>1</sup>	0.2	0.3	0.2	0.2	0.3	0.2	0.4	0.3	0.3	0.2	0.4	0.3	0.3	0.3	0.3	0.3

Sedatives and Hypnotics - Methaqualone Compounds

Age	Sedatives and Hypnotics - Methaqualone Compounds															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5-14	-	-	0.1	-	0.1	0.2	-	0.1	0.1	-	-	0.1	0.2	0.1	0.1	0.2
15-19	0.2	0.3	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.3	0.1	0.2
20-24	0.4	0.2	0.2	0.5	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.3	0.2	0.1	0.3
25-34	0.5	0.4	0.4	0.2	0.4	0.2	0.3	0.3	0.4	0.2	0.3	0.3	0.4	0.3	0.3	0.2
35-44	0.3	0.2	0.1	0.6	0.5	0.1	0.3	0.1	0.4	0.1	0.3	0.1	0.4	0.2	0.2	0.3
45-64	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.1
65-74	-	-	0.1	-	0.1	-	0.2	0.4	0.1	-	0.2	0.4	0.1	-	0.2	0.2
75+	-	-	-	0.2	0.2	0.2	0.3	0.1	0.2	0.2	0.3	0.1	0.1	0.1	0.2	0.2
Total <sup>1</sup>	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2

TABLE J.5 (Continued)

## AGE- AND SEX-SPECIFIC HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, CANADA, 1984-85 TO 1987-88

## POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Age	Sedatives and Hypnotics - Other															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	6.1	4.8	6.1	5.6	6.2	4.9	5.5	6.3	6.1	4.9	5.8	5.9	6.1	4.9	5.8	5.9
5-14	0.9	0.8	1.1	1.3	1.8	2.0	1.8	1.8	1.3	1.4	1.6	1.6	1.3	1.4	1.5	1.6
15-19	4.2	5.1	5.0	4.8	8.8	9.8	8.7	8.8	6.4	7.4	6.8	6.7	6.4	7.4	6.8	6.7
20-24	4.8	6.5	5.6	6.3	8.9	6.8	10.6	9.6	6.9	6.7	8.1	8.0	6.9	6.7	8.1	8.0
25-34	7.0	6.4	6.9	6.6	11.3	10.5	10.0	10.7	9.2	8.5	8.4	8.7	9.2	8.5	8.4	8.7
35-44	6.6	5.7	5.8	4.8	10.9	11.7	11.0	11.1	8.7	8.7	8.4	8.0	8.7	8.7	8.4	8.0
45-64	4.7	5.0	5.0	4.2	8.6	7.9	7.6	7.3	6.7	6.5	6.3	5.8	6.7	6.5	6.3	5.8
65-74	6.0	6.4	5.8	7.7	6.1	8.5	6.3	6.2	6.0	7.5	6.1	6.9	6.0	7.5	6.1	6.9
75+	10.5	12.0	12.7	13.9	7.4	10.8	8.7	7.2	8.6	11.2	10.2	9.7	8.6	11.2	10.2	9.7
Total <sup>1</sup>	5.1	5.2	5.3	5.2	8.1	8.1	7.9	7.9	6.6	6.7	6.6	6.5	6.6	6.7	6.6	6.5

Age	Psychotropic Agents - Antidepressants															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	5.0	4.8	5.5	4.9	3.7	4.3	4.1	4.3	4.4	4.5	4.8	4.6	4.4	4.5	4.8	4.6
5-14	0.9	0.8	1.0	1.2	2.6	3.1	2.1	1.9	1.7	1.9	1.5	1.6	1.7	1.9	1.5	1.6
15-19	4.4	6.3	6.5	6.9	13.8	13.6	14.4	15.0	9.0	9.9	10.4	10.9	9.0	9.9	10.4	10.9
20-24	8.0	8.0	9.3	9.1	15.3	15.9	13.6	14.4	11.7	11.9	11.5	11.7	11.7	11.9	11.5	11.7
25-34	10.5	10.9	10.0	11.5	17.6	19.3	20.6	20.9	14.1	15.2	15.4	16.2	14.1	15.2	15.4	16.2
35-44	8.6	6.1	10.0	9.7	19.0	17.2	18.6	19.3	13.8	11.6	14.3	14.5	13.8	11.6	14.3	14.5
45-64	5.4	5.8	4.5	5.0	10.4	10.0	9.7	9.4	7.9	7.9	7.2	7.3	7.9	7.9	7.2	7.3
65-74	2.7	2.8	3.8	3.7	6.4	6.0	6.3	6.0	4.8	4.6	5.1	5.0	4.8	4.6	5.1	5.0
75+	2.2	2.6	4.1	2.2	4.1	2.5	4.9	6.3	3.4	2.6	4.6	4.8	3.4	2.6	4.6	4.8
Total <sup>1</sup>	6.0	5.9	6.4	6.7	11.4	11.4	11.7	12.0	8.7	8.7	9.1	9.3	8.7	8.7	9.1	9.3

TABLE J.5 (Continued)

AGE- AND SEX-SPECIFIC HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, CANADA<sup>1</sup>, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Age	Psychotropic Agents - Phenothiazine Tranquilizers											
	Male			Female			Total			Total		
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	1.4	2.3	1.3	1.3	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3
5-14	0.4	0.2	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
15-19	1.9	1.7	1.9	2.1	1.7	3.1	3.0	2.3	1.8	2.4	2.4	2.2
20-24	2.9	2.7	3.1	2.8	3.4	3.4	1.9	2.3	3.2	3.0	2.5	2.6
25-34	2.6	2.8	3.6	2.1	3.8	2.8	3.1	3.1	3.2	2.8	3.4	2.6
35-44	1.5	1.6	2.5	1.4	1.7	2.7	2.0	2.2	1.6	2.2	2.2	1.8
45-64	0.8	0.7	0.8	1.2	1.7	1.1	1.2	1.6	1.3	0.9	1.0	1.4
65-74	2.0	0.8	1.1	0.7	1.5	0.6	1.1	1.1	1.7	0.7	1.1	0.9
75+	1.6	1.6	1.5	1.0	0.7	1.1	1.4	1.3	1.0	1.3	1.4	1.2
Total <sup>3</sup>	1.6	1.6	1.9	1.4	1.9	1.8	1.7	1.8	1.8	1.7	1.8	1.6

Age	Psychotropic Agents - Benzodiazepine Tranquilizers											
	Male			Female			Total			Total		
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
0-4	12.9	12.3	11.6	10.9	9.2	11.7	11.0	9.8	11.1	12.0	11.3	10.3
5-14	2.4	1.8	1.2	1.1	3.4	3.5	3.4	2.5	2.9	2.7	2.3	1.8
15-19	7.8	6.9	8.1	7.2	17.0	14.2	14.8	12.7	12.3	10.5	11.3	9.9
20-24	9.9	11.0	9.3	9.0	15.2	13.5	14.8	14.5	12.5	12.3	12.0	11.7
25-34	12.9	13.8	13.0	11.4	20.8	17.4	18.2	18.5	16.9	15.6	15.6	15.0
35-44	11.3	11.2	11.8	11.6	21.0	20.6	18.5	19.7	16.1	15.9	15.2	15.7
45-64	7.7	6.2	6.8	7.6	12.1	12.1	12.8	11.5	9.9	9.2	9.9	9.6
65-74	5.3	6.0	6.6	6.2	7.9	7.6	8.0	7.9	6.7	6.9	7.4	7.1
75+	10.0	7.8	8.9	10.3	6.6	7.0	8.9	8.2	7.9	7.3	8.9	9.0
Total <sup>1</sup>	8.9	8.6	8.6	8.3	13.5	12.7	13.0	12.5	11.2	10.7	10.8	10.4



TABLE J.5 (Continued)

AGE- AND SEX-SPECIFIC HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, CANADA<sup>1</sup>, 1984-85 TO 1987-88

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd)

Age	Psychotropic Agents - Other Tranquilizers												
	Male					Female					Total		
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1987-88
0-4	1.5	1.9	1.6	2.0	2.2	2.2	2.3	2.1	1.9	2.1	1.9	2.1	2.1
5-14	0.4	0.5	0.1	0.3	0.3	0.9	1.1	0.6	0.4	0.7	0.6	0.4	0.4
15-19	1.7	1.8	1.9	1.3	3.1	2.8	2.5	3.2	2.4	2.3	2.2	2.2	2.2
20-24	2.3	2.8	2.5	1.5	2.3	2.4	3.4	2.8	2.3	2.6	2.9	2.1	2.1
25-34	3.9	3.2	3.2	3.5	3.1	3.7	3.9	3.9	3.5	3.5	3.6	3.7	3.7
35-44	2.1	1.7	1.8	2.1	4.4	3.6	2.7	3.7	3.2	2.7	2.2	2.9	2.9
45-64	1.1	1.5	0.8	1.1	2.8	2.0	1.8	2.4	2.0	1.7	1.3	1.7	1.7
65-74	0.9	1.1	1.8	0.7	2.5	2.2	2.6	2.3	1.7	1.7	2.2	1.6	1.6
75+	2.4	2.9	5.8	2.9	3.1	2.5	2.9	2.6	2.9	2.7	4.0	2.8	2.8
Total <sup>1</sup>	1.9	1.9	1.8	1.7	2.6	2.5	2.6	2.7	2.3	2.2	2.2	2.2	2.2

Age	Psychotropic Agents - Other												
	Male					Female					Total		
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1987-88
0-4	3.4	3.4	4.3	2.7	2.2	4.4	3.7	2.1	2.8	3.9	4.0	2.4	2.4
5-14	0.6	0.9	0.9	0.5	0.6	0.6	0.7	1.0	0.6	0.7	0.8	0.8	0.8
15-19	5.0	4.3	5.6	5.2	2.7	3.5	4.4	3.8	3.9	3.9	5.0	4.5	4.5
20-24	4.0	3.6	2.8	2.7	1.7	2.5	1.7	1.8	2.9	3.0	2.3	2.3	2.3
25-34	2.5	1.8	1.9	1.1	2.0	1.2	1.8	1.5	2.2	1.5	1.8	1.3	1.3
35-44	1.4	0.8	0.8	1.2	1.0	1.8	1.3	1.8	1.2	1.3	1.0	1.5	1.5
45-64	0.4	0.7	0.7	0.9	0.9	1.1	0.9	1.5	0.7	0.9	0.8	1.2	1.2
65-74	1.3	0.8	1.2	1.2	1.3	0.9	2.7	1.5	1.3	0.9	2.1	1.3	1.3
75+	0.8	1.8	1.0	1.0	1.3	0.8	1.1	1.2	1.1	1.2	1.0	1.1	1.1
Total <sup>1</sup>	2.0	1.7	1.8	1.6	1.4	1.7	1.7	1.7	1.7	1.7	1.8	1.6	1.6



TABLE J.5 (Concluded)

AGE- AND SEX-SPECIFIC HOSPITAL SEPARATION RATES FOR DRUG-RELATED CASES PER 100,000 POPULATION, CANADA<sup>1</sup>, 1984-85 TO 1987-88

TOTAL ALL CAUSES:

Age	Male					Female					Total				
	1984-85	1985-86	1986-87	1987-88		1984-85	1985-86	1986-87	1987-88		1984-85	1985-86	1986-87	1987-88	
0-4	86.6	75.5	74.1	70.5		85.0	75.4	70.8	63.4		85.8	75.4	72.5	67.0	
5-14	13.5	11.6	11.2	10.8		34.5	34.7	34.8	33.0		23.7	22.9	22.7	21.6	
15-19	97.1	90.1	110.5	106.1		178.3	174.8	189.1	208.2		136.9	131.5	148.9	155.8	
20-24	105.0	102.3	106.6	116.3		120.2	116.7	116.8	123.6		112.6	109.5	111.7	119.9	
25-34	98.7	98.8	102.4	107.5		114.9	113.1	121.9	127.3		106.9	106.0	112.2	117.4	
35-44	63.1	61.7	67.7	68.5		107.5	102.3	99.8	106.4		85.2	82.0	83.7	87.5	
45-64	42.1	40.6	38.5	40.1		68.8	67.1	66.5	67.7		55.7	54.1	52.7	54.1	
65-74	41.2	35.4	40.2	38.8		56.9	56.3	58.2	51.8		49.8	46.9	50.1	46.0	
75+	57.9	54.5	61.3	62.4		58.2	55.8	61.7	60.8		58.1	55.3	61.5	61.4	
<b>Total<sup>1</sup></b>	<b>65.2</b>	<b>62.2</b>	<b>65.6</b>	<b>66.9</b>		<b>90.4</b>	<b>87.5</b>	<b>89.6</b>	<b>92.2</b>		<b>78.0</b>	<b>75.0</b>	<b>77.7</b>	<b>79.7</b>	

Notes: See corresponding notes, Table J.1.

Source: Data were obtained from the Canadian Centre for Health Information, Statistics Canada.



**Chapter K** \_\_\_\_\_  
**ALCOHOL-RELATED MENTAL HEALTH  
IN CANADA**

## Chapter K

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# ALCOHOL-RELATED MENTAL HEALTH IN CANADA

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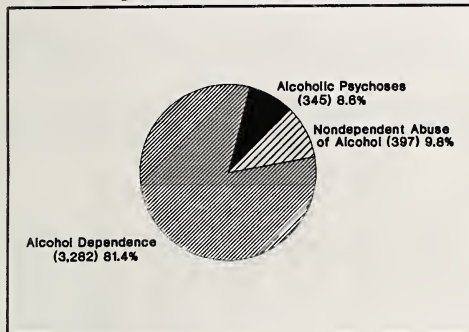
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## K. ALCOHOL-RELATED MENTAL HEALTH IN CANADA

### Highlights

**Figure K.1**  
Psychiatric Hospital Separations for Alcohol-Related Diagnoses, Canada<sup>1</sup>, 1987-88

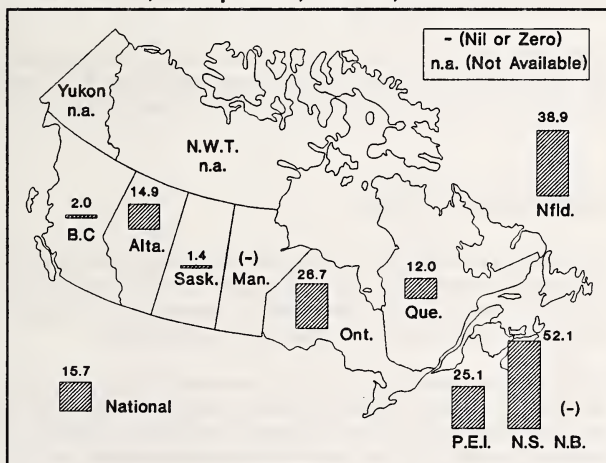


During 1987-88, there were a total of 4,033 alcohol-related separations from psychiatric hospitals in Canada<sup>1</sup>. Alcohol dependence syndrome accounted for 81.4% of this total, while nondependent abuse of alcohol and alcoholic psychoses represented 9.8% and 8.8% respectively (Figure K.1, Table K.1). The rate<sup>2</sup> per 100,000 population for males separated for these diagnoses in total was over 4 times that of females.

Among the provinces, Nova Scotia had the highest rate during the year with 52.1, more than 3 times the national average of 15.7 (Figure K.2, Table K.2). Newfoundland registered the second highest rate with 38.9 and Ontario was third with 26.7.

**Figure K.2**  
Total Alcohol-Related Separations From Psychiatric Hospitals, Rates<sup>2</sup> Per 100,000 Population, Canada<sup>1</sup>, 1987-88

In 1987-88, the median age of those separated from psychiatric hospitals for alcohol dependence syndrome was 39 for males and 37 for females. The corresponding median age for alcoholic psychoses was 61 for males and 66 for females (Table K.4). The age group 35-44 recorded the highest rate per 100,000 population (30.3) for total alcohol-related cases separated from psychiatric institutions. This holds for both men and women (Figure K.3, Table K.5). The rate of separations from psychiatric hospitals for alcohol-related disorders increased with age, peaking at the age 35-44, then declining, as illustrated in Figure K.3. (Contrast with Figure L.3, drug-related mental health).



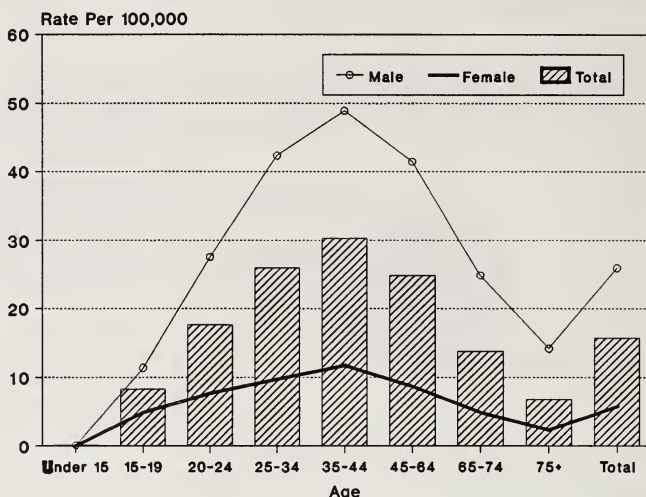
<sup>1</sup> Excludes Yukon and the Northwest Territories. Includes 392 cases treated for nondependent abuse of drugs other than alcohol.

<sup>2</sup> Rates include cases treated for nondependent abuse of drugs (other than alcohol) totalling 313 cases in 1984-85, 319 cases in 1985-86, 373 cases in 1986-87 and 392 cases in 1987-88. These drug cases accounted for about 43%, 43%, 42% and 50% respectively, of all cases within the nondependent abuse of drugs category.

**Figure K.3**  
**Total Alcohol-Related Separations From Psychiatric Hospitals**  
**Rates<sup>2</sup> Per 100,000 Population, by Age and Sex, Canada<sup>1</sup>, 1987-88**

The degree of risk associated with each age group to any one diagnosis was not unique. During the year, while the older age groups were low risks for alcohol dependence syndrome, the opposite was true for alcoholic psychoses. Those aged 65-74 and 75 and over registered the two highest rates for alcoholic psychoses, 5.9 and 4.9 respectively (Table K.5). On the other hand, the group aged 25-34 had the highest rate for nondependent abuse of alcohol (5.9).

In 1987-88, the median length of stay for cases with nondependent abuse of alcohol was 11 days for males and 14 days for females (Table K.6). The corresponding numbers for alcohol dependence syndrome were 20 days for men and 23 days for women, and for alcoholic psychoses, the median length of stay was highest at 46 days for men and 73 days for women (Table K.6).



Alcohol-related cases during the year represented 6.6% of all patient-days at inpatient psychiatric hospitals, almost doubling from the previous year ago (Table K.7). These cases accounted for 21.1% of all separations in Prince Edward Island, 16.8% in Nova Scotia, and 11.9% in Canada (Table K.7)

## Explanatory Notes

The statistics reported are derived from admission/discharge forms, which are completed by the medical records department of psychiatric hospitals, for each person. These forms record one continuous stay in hospital for each patient. A separation is defined as the discharge or death of an inpatient. Separations are grouped according to the province of hospitalization.

The data on separations are counts of cases and not patients, as an individual is counted on each occasion that s/he stays in the hospital. Moreover, only inpatient data on cases treated in psychiatric hospitals are included. Excluded are individual patient data from psychiatric units of general hospitals and residential treatment facilities including, alcohol and drug treatment agencies.

The data are based upon the 9th Revision of the International Classification of Diseases (ICD-9) which was put into effect in Canada in 1979. For medical conditions included under each diagnostic category see Appendix B.

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TABLE K.1

ALCOHOL-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, BY SEX,  
CANADA AND PROVINCES, 1984-85 TO 1987-88

Province	Alcoholic Psychoses															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	12	13	12	8	2	-	-	2	14	13	-	-	14	13	12	10
P.E.I.	1	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-
N.S.	12	22	25	22	5	9	1	7	17	31	1	7	17	31	26	29
N.B.	12	-	-	-	1	-	-	-	13	-	-	-	13	-	-	-
Que.	63	48	45	64	16	12	14	9	79	60	14	9	164	60	59	73
Ont.	122	115	104	127	42	29	24	23	164	144	24	23	164	144	128	150
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	10	4	3	2	3	1	-	2	13	5	-	2	13	5	3	4
Alta.	56	38	45	42	8	5	5	14	64	43	5	14	64	43	50	56
B.C.	26	30	23	25	5	13	12	7	31	31	12	7	31	43	35	32
Canada <sup>1</sup>	314	271	257	290	82	69	56	64	396	340	56	64	396	340	313	354

Province	Alcohol Dependence Syndrome															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	103	145	165	172	17	21	36	23	120	166	21	23	120	166	201	195
P.E.I.	30	20	26	25	5	2	1	7	35	22	1	7	35	22	27	32
N.S.	262	339	282	243	37	41	19	31	299	380	31	31	299	380	301	274
N.B.	22	-	-	-	4	-	-	-	26	-	-	-	26	-	-	-
Que.	604	591	521	525	107	103	80	84	711	694	80	84	711	694	601	609
Ont.	1,813	1,583	1,580	1,598	440	383	391	399	2,253	1,966	391	399	2,253	1,966	1,971	1,997
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	8	8	3	3	8	4	2	2	16	12	2	2	16	12	5	5
Alta.	151	200	98	128	29	43	24	41	180	243	24	41	180	243	122	169
B.C.	6	9	8	1	2	7	1	-	8	16	1	-	8	16	9	1
Canada <sup>1</sup>	2,999	2,895	2,683	2,695	649	604	554	587	3,648	3,499	554	587	3,648	3,499	3,237	3,282



TABLE K.1 (Continued)

ALCOHOL-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

Province	Nondependent Abuse of Alcohol <sup>2</sup>															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	7	9	33	14	-	-	7	9	2	7	16	42	16	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	139	114	116	124	18	40	34	34	32	40	34	32	157	154	150	156
N.B.	12	-	-	-	5	-	-	-	-	-	-	-	17	-	-	-
Que.	102	105	106	69	57	55	32	43	43	55	32	43	159	160	138	112
Ont.	257	246	236	253	83	85	80	91	91	85	80	91	340	331	316	344
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	6	12	3	4	-	3	1	1	1	3	1	1	6	15	4	5
Alta.	30	-	180	98	7	15	43	33	33	15	43	33	37	15	223	131
B.C.	1	2	7	17	-	-	-	3	8	-	-	-	1	2	10	25
Canada <sup>1</sup>	554	536	681	579	170	205	202	210	210	205	108	98	724	741	883	789
Canada <sup>1,3</sup>	338	321	402	299	73	101	108	98	98	101	108	98	411	422	510	397

Province	Total Alcohol-Related Problems <sup>2</sup>															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	122	167	210	194	19	28	45	27	27	28	45	27	141	195	255	221
P.E.I.	31	21	26	25	5	2	1	7	7	2	1	7	36	23	27	32
N.S.	413	475	423	389	60	90	54	70	70	90	54	70	473	565	477	459
N.B.	46	-	-	-	10	-	-	-	-	-	-	-	56	-	-	-
Que.	769	744	672	658	180	170	126	136	136	170	126	136	949	914	798	794
Ont.	2,192	1,944	1,920	1,978	565	497	495	513	513	497	495	513	2,757	2,441	2,415	2,491
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	24	24	9	9	11	8	3	5	5	8	3	5	35	32	12	14
Alta.	237	238	323	268	44	63	72	88	88	63	72	88	281	301	395	356
B.C.	33	41	38	43	7	20	16	15	15	20	16	15	40	61	54	58
Canada <sup>1</sup>	3,867	3,702	3,621	3,564	901	878	812	861	861	878	812	861	4,768	4,580	4,433	4,425
Canada <sup>1,3</sup>	3,651	3,487	3,342	3,284	804	774	718	749	749	774	718	749	4,455	4,261	4,060	4,033

TABLE K.1 (Concluded)

ALCOHOL-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, BY SEX,  
CANADA AND PROVINCES, 1984-85 TO 1987-88

1 Excludes Yukon and Northwest Territories.

2 Includes cases treated for nondependent abuse of drugs totalling 313 cases in 1984-85, 319 cases in 1985-86, 373 cases in 1986-87, and 392 cases in 1987-88. These drug cases accounted for approximately 43%, 43%, 42%, and 50% respectively, of all cases within the Nondependent Abuse of Drugs category.

3 Excludes cases with nondependent abuse of drugs.

Sources: Statistics Canada, Mental Health Statistics 1984-85 (Ottawa: Statistics Canada, Catalogue No. 83-204, 1988); Statistics Canada, Health Reports Supplement No. 3, Volume 2, Number 1 - Mental Health Statistics 1985-86 Revised, (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990); Health Reports Supplement No. 3, Volume 2, Number 2 - Mental Health Statistics 1986-87, (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990); Health Reports Supplement No. 3, Volume 2, Number 2 - Mental Health Statistics 1987-88, (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990).

TABLE K.2

ALCOHOL-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, RATES PER 100,000 POPULATION, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

Province	Alcoholic Psychoses															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	4.2	4.6	4.2	2.8	0.7	-	-	0.7	2.5	2.3	2.1	1.8	-	-	-	-
P.E.I.	1.6	1.6	-	-	-	-	-	-	0.8	0.8	-	-	-	-	-	-
N.S.	2.8	5.1	5.8	5.1	1.1	2.0	0.2	1.6	2.0	3.6	3.0	3.3	-	-	-	-
N.B.	3.4	-	-	-	0.3	-	-	-	1.8	-	-	-	-	-	-	-
Que.	2.0	1.5	1.4	2.0	0.5	0.4	0.4	0.3	1.2	0.9	0.9	1.1	-	-	-	-
Ont.	2.8	2.6	2.3	2.8	0.9	0.6	0.5	0.5	1.8	1.6	1.4	1.6	-	-	-	-
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	2.0	0.8	0.6	0.4	0.6	0.2	-	0.4	1.3	0.5	0.3	0.4	-	-	-	-
Alta.	4.7	3.2	3.8	3.5	0.7	0.4	0.4	1.2	2.7	1.8	2.1	2.4	-	-	-	-
B.C.	1.8	2.1	1.6	1.7	0.3	0.9	0.8	0.5	1.1	1.5	1.2	1.1	-	-	-	-
Canada <sup>1</sup>	2.5	2.2	2.0	2.3	0.6	0.5	0.4	0.5	1.6	1.3	1.2	1.4	-	-	-	-

Province	Alcohol Dependence Syndrome															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	36.0	50.9	58.1	60.7	6.0	7.4	12.7	8.1	21.0	29.2	35.4	34.4	-	-	-	-
P.E.I.	48.2	31.9	41.3	39.6	7.9	3.2	1.6	10.9	27.9	17.4	21.3	25.1	-	-	-	-
N.S.	61.2	78.8	65.3	56.0	8.4	9.3	4.3	6.9	34.5	43.6	34.4	31.1	-	-	-	-
N.B.	6.3	-	-	-	1.1	-	-	-	3.7	-	-	-	-	-	-	-
Que.	18.9	18.5	16.2	16.2	3.2	3.1	2.4	2.5	10.9	10.6	9.2	9.2	-	-	-	-
Ont.	41.2	35.6	35.1	34.8	9.7	8.3	8.4	8.4	25.2	21.7	21.5	21.4	-	-	-	-
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	1.6	1.6	0.6	0.6	1.6	0.8	0.4	0.4	1.6	1.2	0.5	0.5	-	-	-	-
Alta.	12.8	16.9	8.2	10.7	2.5	3.7	2.0	3.5	7.7	10.3	5.1	7.1	-	-	-	-
B.C.	0.4	0.6	0.6	0.1	0.1	0.5	0.1	-	0.3	0.6	0.3	0.0	-	-	-	-
Canada <sup>1</sup>	24.2	23.2	21.4	21.2	5.1	4.7	4.3	4.5	14.6	13.9	12.7	12.8	-	-	-	-



TABLE K.2 (Concluded)

ALCOHOL-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, RATES PER 100,000 POPULATION, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

Province	Nondependent Abuse of Alcohol <sup>2</sup>															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	2.4	3.2	11.6	4.9	-	-	-	3.2	0.7	1.2	-	-	2.8	7.4	-	2.8
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	32.4	26.5	26.9	28.6	4.1	9.1	7.7	7.2	7.2	18.1	17.7	17.1	17.7	17.1	17.7	17.7
N.B.	3.4	-	-	-	1.4	-	-	-	-	2.4	-	-	-	-	-	-
Que.	3.2	3.3	3.3	2.1	1.7	1.7	1.0	1.3	1.3	2.4	2.5	2.1	1.7	2.1	1.7	1.7
Ont.	5.8	5.5	5.2	5.5	1.8	1.8	1.7	1.9	1.9	3.8	3.7	3.4	3.7	3.4	3.7	3.7
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	1.2	2.4	0.6	0.8	-	0.6	0.2	0.2	0.2	0.6	1.5	0.4	0.5	0.4	0.5	0.5
Alta.	2.5	-	15.1	8.2	0.6	1.3	3.6	2.8	2.8	1.6	0.6	9.4	5.5	9.4	5.5	5.5
B.C.	0.1	0.1	0.5	1.2	-	-	0.2	0.5	0.5	-	0.1	0.3	0.8	0.3	0.8	0.8
Canada <sup>1</sup>	4.5	4.3	5.4	4.6	1.3	1.6	1.6	1.6	1.6	2.9	2.9	3.5	3.1	3.5	3.1	3.1
Canada <sup>1,3</sup>	2.7	2.6	3.2	2.4	0.6	0.8	0.8	0.8	0.8	1.6	1.7	2.0	1.5	2.0	1.5	1.5

Province	Total Alcohol-Related Problems <sup>2</sup>															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	42.6	58.6	73.9	68.5	6.7	9.9	15.8	9.5	9.5	24.7	34.3	44.9	38.9	44.9	38.9	38.9
P.E.I.	49.8	33.5	41.3	39.6	7.9	3.2	1.6	10.9	10.9	28.7	18.2	21.3	25.1	21.3	25.1	25.1
N.S.	96.4	110.4	98.0	89.6	13.7	20.4	12.2	15.7	15.7	54.5	64.8	54.5	52.1	54.5	52.1	52.1
N.B.	13.1	-	-	-	2.8	-	-	-	-	7.9	-	-	-	-	-	-
Que.	24.1	23.3	20.9	20.3	5.4	5.1	3.8	4.0	4.0	14.6	14.0	12.2	12.0	12.2	12.0	12.0
Ont.	49.9	43.7	42.7	43.1	12.4	10.8	10.6	10.8	10.8	30.8	27.0	26.3	26.7	27.0	26.3	26.7
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	4.8	4.8	1.8	1.8	2.2	1.6	0.6	1.0	1.0	3.5	3.2	1.2	1.4	3.2	1.2	1.4
Alta.	20.1	20.1	27.0	22.4	3.8	5.4	6.1	7.4	7.4	12.0	12.8	16.6	14.9	12.8	16.6	14.9
B.C.	2.3	2.9	2.6	3.0	0.5	1.4	1.1	1.0	1.0	1.4	2.1	1.9	2.0	2.1	1.9	2.0
Canada <sup>1</sup>	31.2	29.7	28.9	28.1	7.1	6.9	6.3	6.6	6.6	19.0	18.2	17.4	17.2	18.2	17.4	17.2
Canada <sup>1,3</sup>	29.5	28.0	26.6	25.9	6.3	6.1	5.6	5.7	5.7	17.8	16.9	16.0	15.7	16.9	16.0	15.7

See corresponding notes in Table K.1

Sources: Canadian Centre for Health Information, Statistics Canada. For a complete list of sources see Table K.1.



TABLE K.3

ALCOHOL-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, RATES PER 100,000 POPULATION AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

Province	Alcoholic Psychoses															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	6.8	7.3	6.7	4.4	1.1	-	-	1.1	3.9	3.6	3.3	2.7	-	-	-	-
P.E.I.	2.4	2.4	-	-	-	-	-	-	1.2	1.2	-	-	1.2	1.2	-	-
N.S.	4.1	7.4	8.4	7.3	1.6	2.9	0.3	2.2	2.8	5.1	4.2	4.6	2.7	2.7	-	-
N.B.	5.1	-	-	-	0.4	-	-	-	1.7	1.3	1.2	1.5	2.6	2.2	1.9	2.2
Que.	2.8	2.1	2.0	2.8	0.7	0.5	0.6	0.4	0.6	0.6	0.4	1.2	1.5	1.3	1.2	1.5
Ont.	4.0	3.7	3.3	3.9	1.3	0.9	0.7	0.7	2.6	2.2	1.9	2.2	-	-	-	-
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	3.0	1.2	0.9	0.6	0.9	0.3	-	0.6	1.9	0.7	0.4	0.6	4.0	2.7	3.1	3.4
Alta.	7.0	4.7	5.5	5.1	1.0	0.6	0.6	1.7	4.0	2.7	3.1	3.4	1.5	2.1	1.7	1.5
B.C.	2.6	3.0	2.2	2.4	0.5	1.2	1.1	0.6	2.3	1.9	1.7	1.9	2.3	1.9	1.7	1.9
Canada <sup>1</sup>	3.7	3.1	2.9	3.2	0.9	0.8	0.6	0.7	2.3	1.9	1.7	1.9	2.3	1.9	1.7	1.9

Province	Alcohol Dependence Syndrome															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	58.2	81.2	91.7	94.8	9.4	11.5	19.5	12.3	33.6	46.0	55.1	52.9	41.5	25.7	31.2	36.4
P.E.I.	72.6	47.7	61.6	58.5	11.6	4.6	2.3	15.5	49.8	62.3	48.8	43.8	41.5	25.7	31.2	36.4
N.S.	89.9	114.6	94.3	80.3	12.0	13.1	6.0	9.6	49.8	62.3	48.8	43.8	41.5	25.7	31.2	36.4
N.B.	9.4	-	-	-	1.6	-	-	-	5.4	-	-	-	5.4	-	-	-
Que.	27.1	26.2	22.8	22.7	4.5	4.2	3.3	3.4	15.4	14.8	12.7	12.7	15.4	14.8	12.7	12.7
Ont.	59.0	50.6	49.6	49.1	13.4	11.4	11.5	11.5	35.4	30.3	29.9	29.6	35.4	30.3	29.9	29.6
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	2.4	2.4	0.9	0.9	2.3	1.2	0.6	0.6	2.4	1.8	0.7	0.7	2.4	1.8	0.7	0.7
Alta.	18.9	24.9	12.0	15.7	3.7	5.4	2.9	5.0	11.3	15.1	7.5	10.3	11.3	15.1	7.5	10.3
B.C.	0.6	0.9	0.8	0.1	0.2	0.7	0.1	-	0.4	0.8	0.4	0.0	0.4	0.8	0.4	0.0
Canada <sup>1</sup>	35.0	33.4	30.5	30.2	7.2	6.6	5.9	6.2	20.7	19.6	17.9	17.9	20.7	19.6	17.9	17.9

TABLE K.3 (Concluded)

## ALCOHOL-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, RATES PER 100,000 POPULATION AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

Province	Nondependent Abuse of Alcohol <sup>2</sup>															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	4.0	5.0	18.3	7.7	-	-	3.8	4.9	1.1	-	-	2.0	4.4	11.5	4.3	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	47.7	38.6	38.8	41.0	5.8	12.7	10.7	10.7	9.9	26.1	25.3	26.1	25.3	24.3	25.0	-
N.B.	5.1	-	-	-	2.0	-	-	-	-	3.5	-	3.5	-	-	-	-
Que.	4.6	4.7	4.6	3.0	2.4	2.3	1.3	1.3	1.7	3.4	3.4	3.4	3.4	2.9	2.3	-
Ont.	8.4	7.9	7.4	7.8	2.5	2.5	2.3	2.3	2.6	5.3	5.1	5.3	5.1	4.8	5.1	-
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	1.8	3.5	0.9	1.2	-	0.9	0.3	0.3	0.3	0.9	2.2	0.9	2.2	0.6	0.7	-
Alta.	3.8	-	22.1	12.0	0.9	1.9	5.3	4.0	4.0	2.3	0.9	2.3	0.9	13.7	8.0	-
B.C.	0.1	0.2	0.7	1.6	-	-	-	0.3	0.7	-	-	-	0.1	0.5	1.2	-
Canada <sup>1</sup>	6.5	6.2	7.7	6.5	1.9	2.2	2.2	2.2	2.2	4.1	4.1	4.1	4.1	4.9	4.3	-
Canada <sup>1,3</sup>	3.9	3.7	4.6	3.4	0.8	1.1	1.2	1.0	1.0	2.3	2.4	2.3	2.4	2.8	2.2	-

Province	Total Alcohol-Related Problems <sup>2</sup>															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	68.9	93.6	116.7	106.9	10.5	15.4	24.4	14.4	14.4	39.5	54.0	39.5	54.0	69.9	60.0	-
P.E.I.	75.1	50.1	61.6	58.5	11.6	4.6	2.3	15.5	15.5	42.7	26.8	42.7	26.8	31.2	36.4	-
N.S.	141.7	160.6	141.4	128.5	19.4	28.7	17.0	21.7	21.7	78.8	92.7	78.8	92.7	77.3	73.5	-
N.B.	19.7	-	-	-	4.1	-	-	-	-	11.7	-	11.7	-	-	-	-
Que.	34.5	33.0	29.4	28.5	7.5	7.0	5.1	5.5	5.5	20.5	19.5	20.5	19.5	16.8	16.5	-
Ont.	71.4	62.2	60.3	60.8	17.2	14.8	14.5	14.7	14.7	43.4	37.7	43.4	37.7	36.6	37.0	-
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	7.2	7.1	2.7	2.6	3.2	2.3	0.9	1.4	1.4	5.2	4.7	5.2	4.7	1.7	2.0	-
Alta.	29.7	29.6	39.7	32.9	5.6	7.9	8.8	10.7	10.7	17.7	18.8	17.7	18.8	24.3	21.8	-
B.C.	3.3	4.0	3.7	4.1	0.7	1.9	1.5	1.4	1.4	2.0	2.9	2.0	2.9	2.6	2.7	-
Canada <sup>1</sup>	45.2	42.7	41.2	39.9	10.0	9.6	8.7	9.1	9.1	27.1	25.6	27.1	25.6	24.5	24.1	-
Canada <sup>1,3</sup>	42.6	40.2	38.0	36.8	8.9	8.4	7.7	7.9	7.9	25.3	23.9	25.3	23.9	22.4	21.9	-

See corresponding notes in Table K.1.

Sources: Canadian Centre for Health Information, Statistics Canada. For a complete list of sources see Table K.1.

TABLE K.4

ALCOHOL-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

Age	Alcoholic Psychoses														
	Male						Female								
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88			
Under 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	1	5	1	3	-	-	-	-	-	-	-	-	1	5	1
20-24	9	9	5	2	3	3	3	3	3	3	3	3	12	12	5
25-34	40	23	17	24	4	7	5	1	4	4	5	1	44	30	22
35-44	50	43	40	35	12	11	10	10	12	11	10	10	62	54	50
45-64	138	114	97	106	45	18	25	17	45	18	25	17	183	132	122
65-74	52	59	66	78	7	22	8	22	7	22	8	22	59	81	74
75+	24	18	31	42	11	8	8	11	11	8	8	11	35	26	39
Total	314	271	257	290	82	69	56	64	82	69	56	64	396	340	313
Median Age	52	54	58	61	52	58	58	66	52	58	58	66	n.a.	n.a.	n.a.

Age	Alcohol Dependence Syndrome														
	Male						Female								
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88			
Under 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	3	60	44	58	1	18	18	26	-	-	-	-	95	78	62
20-24	256	216	194	214	63	71	48	55	63	71	48	55	319	287	242
25-34	770	774	719	736	179	144	143	164	179	144	143	164	949	918	862
35-44	857	798	764	759	160	170	167	157	160	170	167	157	1,017	968	931
45-64	913	918	816	813	194	179	147	160	194	179	147	160	1,107	1,097	963
65-74	109	114	122	100	29	17	25	22	29	17	25	22	138	131	147
75+	19	12	23	14	4	5	6	3	4	5	6	3	23	17	29
Total	2,999	2,895	2,683	2,695	649	604	554	587	649	604	554	587	3,648	3,499	3,237
Median Age	39	39	39	39	38	39	39	37	38	39	39	37	n.a.	n.a.	n.a.



TABLE K.4 (Concluded)

ALCOHOL-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

Age	Nondependent Abuse of Alcohol <sup>2</sup>															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Under 15	-	1	2	1	1	1	-	2	1	1	2	1	2	2	2	3
15-19	46	55	66	51	20	23	16	20	66	78	82	71	66	78	82	71
20-24	103	110	108	89	25	32	31	26	128	142	139	115	128	142	139	115
25-34	190	182	240	210	47	69	62	62	237	251	302	272	237	251	302	272
35-44	119	83	146	126	32	42	49	55	151	125	195	181	151	125	195	181
45-64	82	89	100	88	38	34	38	41	120	123	138	129	120	123	138	129
65-74	10	14	16	12	6	3	5	2	16	17	21	14	16	17	21	14
75+	4	2	3	2	1	1	1	2	5	3	4	4	5	3	4	4
Total	554	536	681	579	170	205	202	210	724	741	883	789	724	741	883	789
Total <sup>3</sup>	338	321	402	299	73	101	108	98	411	422	510	397	411	422	510	397
Median Age	30	29	31	31	33	31	33	34	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Age	All Alcohol-Related Problems <sup>2</sup>															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Under 15	-	4	3	2	1	1	-	2	1	1	2	1	1	1	3	4
15-19	122	120	111	112	40	41	34	46	162	161	145	158	162	161	145	158
20-24	368	335	307	305	91	106	79	84	459	441	386	389	459	441	386	389
25-34	1,000	979	976	970	230	220	210	227	1,230	1,199	1,186	1,197	1,230	1,199	1,186	1,197
35-44	1,026	924	950	920	204	223	226	222	1,230	1,147	1,176	1,142	1,230	1,147	1,176	1,142
45-64	1,133	1,121	1,013	1,007	277	231	210	218	1,410	1,352	1,223	1,225	1,410	1,352	1,223	1,225
65-74	171	187	204	190	42	42	38	46	213	229	242	236	213	229	242	236
75+	47	32	57	58	16	14	15	16	63	46	72	74	63	46	72	74
Total	3,867	3,702	3,621	3,564	901	878	812	861	4,768	4,580	4,433	4,425	4,768	4,580	4,433	4,425
Total <sup>3</sup>	3,651	3,487	3,342	3,284	804	774	718	749	4,455	4,261	4,060	4,033	4,455	4,261	4,060	4,033
Median Age	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

See corresponding notes in Table K.1.

Sources: Canadian Centre for Health Information, Statistics Canada. For a complete list of sources see Table K.1.



TABLE K.5

ALCOHOL-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, RATES PER 100,000 POPULATION, BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

Age	Alcoholic Psychoses												
	Male						Female						
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	
Under 15	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	0.1	0.5	0.1	0.3	-	-	-	-	-	-	-	-	0.3
20-24	0.8	0.8	0.4	0.2	0.3	0.3	-	-	0.3	-	-	-	0.5
25-34	1.8	1.0	0.8	1.0	0.2	0.3	0.2	-	0.2	0.2	0.2	0.2	0.7
35-44	2.9	2.4	2.2	1.9	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.5	1.5
45-64	5.8	4.8	4.0	4.4	1.8	1.8	1.0	0.7	1.8	1.0	0.7	0.7	3.8
65-74	7.4	8.2	8.9	10.2	0.8	2.5	0.9	2.3	1.8	2.5	0.9	2.3	3.8
75+	6.5	4.7	7.9	10.3	1.8	1.3	1.2	1.6	1.8	1.3	1.2	1.6	3.6
All Ages	2.5	2.2	2.1	2.3	0.6	0.5	0.4	0.5	0.6	0.5	0.4	0.5	1.6

Age	Alcohol Dependence Syndrome												
	Male						Female						
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	
Under 15	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	7.3	6.0	4.5	5.9	2.0	1.9	1.9	2.8	2.0	1.9	1.9	2.8	4.7
20-24	21.6	18.5	17.1	19.4	5.4	6.1	4.3	5.1	5.4	6.1	4.3	5.1	13.5
25-34	35.2	34.8	31.9	32.1	8.1	6.4	6.3	7.1	8.1	6.4	6.3	7.1	21.6
35-44	50.2	45.2	41.9	40.3	9.5	9.7	9.2	8.3	9.5	9.7	9.2	8.3	29.9
45-64	38.6	38.6	34.0	33.4	7.9	7.3	5.9	6.4	7.9	7.3	5.9	6.4	23.0
65-74	15.5	15.8	16.5	13.1	3.4	1.9	2.7	2.3	3.4	1.9	2.7	2.3	8.9
75+	5.1	3.1	5.8	3.4	0.7	0.8	0.9	0.4	0.7	0.8	0.9	0.4	2.3
All Ages	24.3	23.3	21.5	21.3	5.1	4.7	4.3	4.5	5.1	4.7	4.3	4.5	14.6

TABLE K.5 (Concluded)

ALCOHOL-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, RATES PER 100,000 POPULATION, BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

Age	Nondependent Abuse of Alcohol <sup>2</sup>																						
	Male				Female				Total														
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88											
Under 15	-	-	0.1	-	-	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15-19	4.5	5.5	6.7	5.2	2.0	2.4	1.7	2.1	3.3	4.0	4.2	3.7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
20-24	8.7	9.4	9.5	8.1	2.1	2.8	2.8	2.4	5.4	6.1	6.2	5.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
25-34	8.7	8.2	10.7	9.2	2.1	3.1	2.7	2.7	5.4	5.6	6.7	5.9	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
35-44	7.0	4.7	8.0	6.7	1.9	2.4	2.7	2.9	4.4	3.5	5.4	4.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
45-64	3.5	3.7	4.2	3.6	1.6	1.4	1.5	1.6	2.5	2.5	2.8	2.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65-74	1.4	1.9	2.2	1.6	0.7	0.3	0.5	0.2	1.0	1.1	1.3	0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75+	1.1	0.5	0.8	0.5	0.2	0.2	0.2	0.3	0.5	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
All Ages	4.5	4.3	5.4	4.6	1.3	1.6	1.6	1.6	2.9	2.9	3.5	3.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
All Ages <sup>3</sup>	2.7	2.6	3.2	2.4	0.6	0.8	0.8	0.8	1.6	1.7	2.0	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

Age	All Alcohol-Related Problems <sup>2</sup>																						
	Male				Female				Total														
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88											
Under 15	-	-	0.1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	11.8	12.0	11.2	11.4	4.0	4.3	3.6	4.9	8.0	8.2	7.5	8.3	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
20-24	31.0	28.6	27.1	27.6	7.8	9.1	7.0	7.7	19.4	18.9	17.1	17.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
25-34	45.7	44.1	43.3	42.3	10.4	9.8	9.2	9.8	27.9	26.8	26.2	26.0	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
35-44	60.2	52.3	52.1	48.9	12.1	12.7	12.4	11.8	36.2	32.5	32.3	30.3	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
45-64	48.0	47.1	42.2	41.4	11.3	9.4	8.5	8.7	29.3	28.0	25.1	24.9	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
65-74	24.4	26.0	27.6	24.9	4.9	4.8	4.2	4.9	13.7	14.3	14.7	13.8	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
75+	12.7	8.3	14.4	14.2	2.6	2.2	2.3	2.4	6.4	4.5	6.9	6.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Total	31.3	29.8	28.9	28.2	7.1	6.9	6.3	6.6	19.1	18.2	17.5	17.3	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
Total <sup>3</sup>	29.6	28.1	26.7	26.0	6.4	6.1	5.6	5.8	17.8	16.9	16.0	15.7	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8

See corresponding notes in Table K.1.

Sources: Canadian Centre for Health Information, Statistics Canada. For a complete list of sources see Table K.1.

TABLE K.6

ALCOHOL-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS  
BY LENGTH OF STAY, CANADA<sup>1</sup>, 1984-85 TO 1987-88

Length of Stay	Alcoholic Psychoses							
	Male				Female			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Under 3 days	15	15	7	11	7	3	3	2
3-5 days	23	18	19	22	3	3	3	1
6-8 days	27	20	17	26	3	5	1	2
9-12 days	23	20	13	23	7	4	3	2
13-16 days	14	13	14	12	5	2	5	2
17-30 days	58	38	35	30	10	8	9	9
31-90 days	70	56	65	62	25	16	15	16
91-365 days	44	39	45	46	13	13	8	18
1 year and over	40	52	42	58	9	15	9	12
<b>Total</b>	<b>314</b>	<b>271</b>	<b>257</b>	<b>290</b>	<b>82</b>	<b>69</b>	<b>56</b>	<b>64</b>
<b>Mean (days)</b>	<b>272</b>	<b>409</b>	<b>363</b>	<b>459</b>	<b>335</b>	<b>450</b>	<b>421</b>	<b>637</b>
<b>Median (days)</b>	<b>30</b>	<b>41</b>	<b>42</b>	<b>46</b>	<b>37</b>	<b>50</b>	<b>42</b>	<b>73</b>

Length of Stay	Alcohol Dependence Syndrome							
	Male				Female			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Under 3 days	265	327	390	342	61	62	61	55
3-5 days	334	322	248	260	67	49	45	64
6-8 days	267	211	188	202	43	39	42	40
9-12 days	193	184	173	212	35	45	32	41
13-16 days	199	202	178	156	28	41	28	41
17-30 days	1,063	989	835	884	217	213	161	161
31-90 days	611	602	612	586	177	136	167	169
91-365 days	48	42	42	38	18	17	15	16
1 year and over	19	16	17	15	3	2	3	-
<b>Total</b>	<b>2,999</b>	<b>2,895</b>	<b>2,683</b>	<b>2,695</b>	<b>649</b>	<b>604</b>	<b>554</b>	<b>587</b>
<b>Mean (days)</b>	<b>35</b>	<b>35</b>	<b>30</b>	<b>27</b>	<b>36</b>	<b>32</b>	<b>29</b>	<b>27</b>
<b>Median (days)</b>	<b>21</b>	<b>21</b>	<b>20</b>	<b>20</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>23</b>

Length of Stay	Nondependent Abuse of Alcohol <sup>2</sup>							
	Male				Female			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Under 3 days	118	106	117	106	28	47	43	37
3-5 days	110	77	91	102	42	37	32	34
6-8 days	60	54	78	60	18	21	13	10
9-12 days	42	44	40	50	11	18	16	18
13-16 days	30	44	51	44	8	12	13	13
17-30 days	110	126	175	125	26	29	42	45
31-90 days	67	73	108	70	30	34	34	43
91-365 days	15	12	19	18	6	7	9	8
1 year and over	2	-	2	4	1	-	-	2
<b>Total</b>	<b>554</b>	<b>536</b>	<b>681</b>	<b>579</b>	<b>170</b>	<b>205</b>	<b>202</b>	<b>210</b>
<b>Mean (days)</b>	<b>21</b>	<b>20</b>	<b>23</b>	<b>27</b>	<b>25</b>	<b>20</b>	<b>22</b>	<b>29</b>
<b>Median (days)</b>	<b>8</b>	<b>11</b>	<b>14</b>	<b>11</b>	<b>8</b>	<b>8</b>	<b>12</b>	<b>14</b>



TABLE K.6 (Concluded)

**ALCOHOL-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS  
BY LENGTH OF STAY, CANADA<sup>1</sup>, 1984-85 TO 1987-88**

Length of Stay	All Alcohol-Related Problems <sup>2</sup>							
	Male				Female			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Under 3 days	398	448	514	459	96	112	107	94
3- 5 days	467	417	358	384	112	89	80	99
6- 8 days	354	285	283	288	64	65	56	52
9-12 days	258	248	226	285	53	67	51	61
13-16 days	243	259	243	212	41	55	46	56
17-30 days	1,231	1,153	1,045	1,039	253	250	212	215
31-90 days	748	731	785	718	232	186	216	228
91-365 days	107	93	106	102	37	37	32	42
1 year and over	61	68	61	77	13	17	12	14
<b>Total</b>	<b>3,867</b>	<b>3,702</b>	<b>3,621</b>	<b>3,564</b>	<b>901</b>	<b>878</b>	<b>812</b>	<b>861</b>
<b>Mean (days)</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
<b>Median (days)</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>

See corresponding notes in Table K.1.

Sources: Statistics Canada, Mental Health Statistics 1984-85 (Ottawa: Statistics Canada, Catalogue No. 83-204, 1988); Statistics Canada, Health Reports Supplement No. 3, Volume 2, Number 1 - Mental Health Statistics 1985-86 Revised (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990); Health Reports Supplement No. 3, Volume 2, Number 2 - Mental Health Statistics 1986-87, (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990); Health Reports Supplement No. 3, Volume 2, Number 2 - Mental Health Statistics 1987-88, (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990).



**TABLE K.7**

**PERCENTAGE OF HOSPITAL SEPARATIONS AND PATIENT-DAYS FROM PSYCHIATRIC HOSPITALS FOR ALCOHOL-RELATED CASES RELATIVE TO TOTAL FOR ALL DIAGNOSTIC CATEGORIES, CANADA AND PROVINCES, 1984-85 TO 1987-88**

Province	Hospital Separations			
	1984-85	1985-86	1986-87	1987-88
Nfld.	13.1 %	18.0 %	22.3 %	19.2 %
P.E.I.	25.9	16.3	19.6	21.1
N.S.	17.8	20.8	17.3	16.8
N.B.	9.6	-	-	-
Que.	10.0	9.8	8.8	8.7
Ont.	15.1	14.4	14.4	14.6
Man.	-	-	-	-
Sask.	7.5	7.6	5.1	6.0
Alta.	12.9	15.9	16.9	14.9
B.C.	3.1	5.3	5.4	5.5
Canada <sup>1,2</sup>	13.2	13.5	13.2	13.1
Canada <sup>2,3</sup>	12.3	12.6	12.1	11.9

	Patient-Days			
Canada <sup>1,2</sup>	3.5 %	3.9 %	3.6 %	6.6 %

See corresponding notes in Table K.1

Sources: Statistics Canada, Mental Health Statistics 1984-85 (Ottawa: Statistics Canada, Catalogue No. 83-204, 1988); Statistics Canada, Health Reports Supplement No. 3, Volume 2, Number 1 - Mental Health Statistics 1985-86 Revised (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990); Health Reports Supplement No. 3, Volume 2, Number 2 - Mental Health Statistics 1986-87 (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990); Health Reports Supplement No. 3, Volume 2, Number 2 - Mental Health Statistics 1987-88 (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990).



**Chapter L** \_\_\_\_\_  
**DRUG-RELATED MENTAL HEALTH IN CANADA**

## Chapter L

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# DRUG-RELATED MENTAL HEALTH IN CANADA

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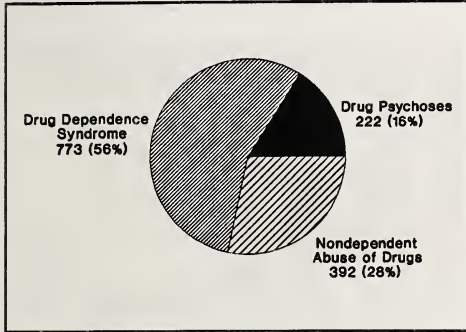
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# L. DRUG-RELATED MENTAL HEALTH IN CANADA

## Highlights

**Figure L.1**  
**Psychiatric Hospital Separations for Drug-Related Diagnoses, Canada<sup>1</sup>, 1978-88**



In 1987-88, drug-related separations from psychiatric hospitals in Canada<sup>1</sup> jumped 5.7% from a year ago to 1,387 (Table L.1). Of this, 56% were for drug dependence syndrome, 28% for nondependent abuse of drugs, and 16% for drug psychoses (Figure L.1, Table L.1). Males were more than twice as likely to be separated from psychiatric hospitals for drug-related diagnoses as females (Table L.2).

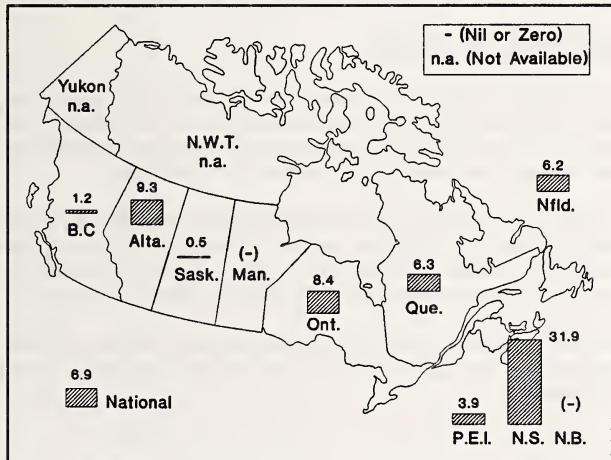
As in the case of alcohol-related separations, Nova Scotia had the highest rate<sup>2</sup> (31.9) per 100,000 population. Alberta had the second highest rate with 9.3 despite a 25% decline from the previous year, while Ontario was third with 8.4 (Figure L.2,

Table L.2). The national average of 5.4 per 100,000 population in 1987-88 represented a rise of 3.8% from a year earlier.

**Figure L.2**  
**Total Alcohol-Related Separations from Psychiatric Hospitals, Rates<sup>2</sup> Per 100,000 Population, Canada<sup>1</sup>, 1987-88**

The median age in 1987-88 for cases with drug psychoses was 24 for males (the same as it had been since 1984-85) and 28 for females (Table L.4). For those with drug dependence syndrome, however, the median age was generally higher: 28 for males and 29 for females.

During 1987-88, the rate of drug-related separations was highest among those aged 20-24 (15.5 separations per 100,000 population), followed closely by those aged 25-34 (14.9, Table L.5). These age groups were both well above all other age groups, as well as, the national rate of 5.4.



<sup>1</sup> Excludes Yukon and the Northwest Territories. Includes cases treated for nondependent abuse of alcohol.

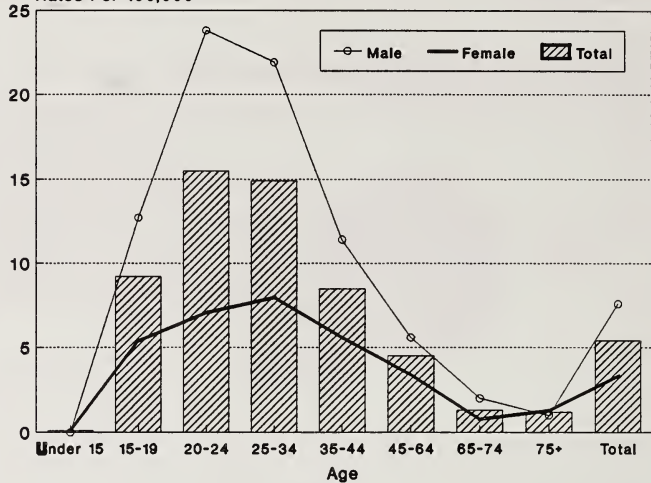
<sup>2</sup> Rates include cases treated for nondependent abuse of alcohol totalling 411 cases in 1984-85, 422 cases in 1985-86, 510 cases in 1986-87 and 397 cases in 1987-88. These alcohol cases accounted for approximately 57%, 57%, 58%, and 50% respectively, of all cases within the nondependent abuse of drugs category.

**Figure L.3**  
**Total Drug-Related Separations From Psychiatric Hospitals,**  
**Rates<sup>2</sup> Per 100,000 Population, Sex and Age, Canada<sup>1</sup>, 1987-88**  
 Rates Per 100,000

Drug-related cases tended to be younger (20-34) than alcohol-related cases (35-44) treated in psychiatric hospitals (see Chapter K).

The longest median length of stay was for cases with drug psychoses: 21 days for males and 18 days for females. For drug dependence syndrome, the median was 11 days for males and 15 day for females. The corresponding figures for nondependent abuse of drugs was 11 days for males and 2 weeks for females (Table L.6).

In 1987-88, 4.1% of all cases separated from Canadian psychiatric hospitals were drug-related, a 5.1% increase from the previous year. Regionally, 10.3% of all separations in Nova Scotia were drug-related diagnoses, the highest among all provinces followed by Alberta (9.2%), while both Ontario and Quebec had 4.6% (Table L.7). Drug-related separations accounted for 1.5 of all patient-days at inpatient psychiatric hospitals (Table L.7), as opposed to 6.6% for alcohol-related cases.



## Explanatory Notes

The statistics reported are derived from admission/discharge forms, which are completed by the medical records department of psychiatric hospitals, for each person. These forms record one continuous stay in hospital for each patient. A separations is defined as the discharge or death of an inpatient. Separations are grouped according to the province of hospitalization.

The data on separations are counts of cases and not patients, as an individual is counted on each occasion that they stay in the hospital. Moreover, only inpatient data on cases treated in psychiatric hospitals are included. Excluded are individual patient data from psychiatric units of general hospitals and residential treatment facilities including, alcohol and drug treatment agencies.

The data are based upon the 9th Revision of the International Classification of Diseases (ICD-9) which was put into effect in Canada in 1979. For medical conditions included under each diagnostic category see Appendix B.

## **References**

Statistics Canada, Health Reports Supplement No. 3, Volume 2, Number 1 - Mental Health Statistics 1985-86 Revised, (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990).

Statistics Canada, Health Reports Supplement No. 3, Volume 2, Number 2 - Mental Health Statistics 1986-87, (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990).

Statistics Canada, Health Reports Supplement No. 3, Volume 2, Number 2 - Mental Health Statistics 1987-88, (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1991).

TABLE L.1

DRUG-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, BY SEX,  
CANADA AND PROVINCES, 1984-85 TO 1987-88

Province	Drug Psychoses											
	Male						Female					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	5	6	5	12	-	1	1	1	5	-	-	7
P.E.I.	-	1	-	1	-	-	-	-	-	-	-	1
N.S.	31	20	27	23	8	9	7	2	39	29	34	25
N.B.	11	-	-	-	-	-	-	-	11	-	-	-
Que.	17	27	21	21	10	5	5	6	27	32	26	27
Ont.	146	102	81	66	38	36	37	34	184	138	118	100
Man.	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	-	1	1	-	-	-	-	-	-	1	1	-
Alta.	81	52	39	41	16	12	14	7	97	64	53	48
B.C.	11	9	13	6	4	3	2	2	15	12	15	8
Canada <sup>1</sup>	302	218	187	170	76	66	66	52	378	284	253	222

Province	Drug Dependence Syndrome											
	Male						Female					
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	3	-	2	1	1	4	2	5	4	4	4	6
P.E.I.	3	6	4	4	-	1	2	-	3	7	6	4
N.S.	8	13	54	72	3	1	14	28	11	14	68	100
N.B.	6	-	-	-	4	-	-	-	10	-	-	-
Que.	150	147	153	195	73	52	70	83	223	199	223	278
Ont.	205	228	246	211	110	116	119	130	315	344	365	341
Man.	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	-	-	1	-	1	-	-	-	1	-	1	-
Alta.	5	10	15	28	5	3	3	14	10	13	18	42
B.C.	-	2	1	1	-	-	-	1	-	2	1	2
Canada <sup>1</sup>	380	406	476	512	197	177	210	261	577	583	686	773



TABLE L.1 (Continued)

DRUG-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

Province	Nondependent Abuse of Drugs <sup>2</sup>															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	7	9	33	14	-	-	9	2	-	-	-	7	16	42	16	
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	139	114	116	124	18	40	34	32	157	154	150	17	154	150	156	
N.B.	12	-	-	69	5	-	-	43	32	43	138	159	160	138	112	
Que.	102	105	106	253	83	85	80	91	340	331	316	340	331	316	344	
Ont.	257	246	236	-	-	-	-	-	-	-	-	-	-	-	-	
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sask.	6	12	3	4	-	3	1	1	6	15	4	6	15	4	5	
Alta.	30	48	180	98	7	15	43	33	37	63	223	37	63	223	131	
B.C.	1	2	7	17	-	-	3	8	1	2	10	1	2	10	25	
Canada <sup>1</sup>	554	536	681	579	170	205	202	210	724	741	883	724	741	883	789	
Canada <sup>1,3</sup>	216	215	279	280	97	104	94	112	313	319	373	313	319	373	392	

Province	Total Drug-Related Problems <sup>2</sup>														
	Male						Female						Total		
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87
Nfld.	15	15	40	27	1	12	12	8	16	27	52	16	27	52	35
P.E.I.	3	7	4	5	-	1	2	-	3	8	6	3	8	6	5
N.S.	178	147	197	219	29	50	55	62	207	197	252	17	197	252	281
N.B.	29	-	-	-	9	-	-	-	38	-	-	38	-	-	-
Que.	269	279	280	285	140	112	107	132	409	391	387	409	391	387	417
Ont.	608	576	563	530	231	237	236	255	899	813	799	899	813	799	785
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	6	13	5	4	1	3	1	1	7	16	6	7	16	6	5
Alta.	116	110	234	167	28	30	60	54	144	140	294	144	140	294	221
B.C.	12	13	21	24	4	3	5	11	16	16	26	16	16	26	35
Canada <sup>1</sup>	1,236	1,160	1,344	1,261	443	448	478	523	1,679	1,608	1,822	1,679	1,608	1,822	1,784
Canada <sup>1,3</sup>	898	839	942	962	370	347	370	425	1,268	1,186	1,312	1,268	1,186	1,312	1,387

TABLE L.1 (Concluded)

DRUG-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, BY SEX,  
CANADA AND PROVINCES, 1984-85 TO 1987-88

- 1 Excludes Yukon and Northwest Territories.
- 2 Includes cases treated for nondependent abuse of alcohol totalling 411 cases in 1984-85, 422 cases in 1985-86, 510 cases in 1986-87 and 397 cases in 1987-88. These alcohol cases accounted for approximately 57%, 57%, 58%, and 50% respectively, of all cases within the Nondependent Abuse of Drugs category.
- 3 Excludes cases with nondependent abuse of alcohol.

Sources: Statistics Canada, Mental Health Statistics 1984-85 (Ottawa: Statistics Canada, Catalogue No. 83-204, 1988); Statistics Canada, Health Reports Supplement No. 3, Volume 2, Number 1 - Mental Health Statistics 1985-86 Revised, (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990); Health Reports Supplement No. 3, Volume 2, Number 2 - Mental Health Statistics 1986-87, (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990); Health Reports Supplement No. 3, Volume 2, Number 2 - Mental Health Statistics 1987-88, (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990).

TABLE L.2

DRUG-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, RATES PER 100,000 POPULATION, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

Province	Drug Psychoses											
	Male					Female					Total	
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	1.7	2.1	1.8	4.2	-	0.4	0.4	0.4	0.9	1.2	1.1	2.3
P.E.I.	-	1.6	-	1.6	-	-	-	-	-	0.8	-	0.8
N.S.	7.2	4.6	6.3	5.3	1.8	2.0	1.6	0.4	4.5	3.3	3.9	2.8
N.B.	3.1	-	-	-	-	-	-	-	1.6	-	-	-
Que.	0.5	0.8	0.7	0.6	0.3	0.2	0.1	0.2	0.4	0.5	0.4	0.4
Ont.	3.3	2.3	1.8	1.4	0.8	0.8	0.8	0.7	2.1	1.5	1.3	1.1
Man.	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	-	0.2	0.2	-	-	-	-	-	-	-	-	-
Alta.	6.9	4.4	3.3	3.4	1.4	1.0	1.2	0.6	4.2	2.7	2.2	2.0
B.C.	0.8	0.6	0.9	0.4	0.3	0.2	0.1	0.1	0.5	0.4	0.5	0.3
Canada <sup>1</sup>	2.4	1.8	1.5	1.3	0.6	0.5	0.5	0.4	1.5	1.1	1.0	0.9

Province	Drug Dependence Syndrome											
	Male					Female					Total	
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	1.0	-	0.7	0.4	0.4	1.4	0.7	1.8	0.7	0.7	0.7	1.1
P.E.I.	4.8	9.6	6.3	6.3	-	1.6	3.1	-	2.4	5.6	4.7	3.1
N.S.	1.9	3.0	12.5	16.6	0.7	0.2	3.2	6.3	1.3	1.6	7.8	11.3
N.B.	1.7	-	-	-	1.1	-	-	-	1.4	-	-	-
Que.	4.7	4.6	4.8	6.0	2.2	1.6	2.1	2.5	3.4	3.1	3.4	4.2
Ont.	4.7	5.1	5.5	4.6	2.4	2.5	2.6	2.7	3.5	3.8	4.0	3.7
Man.	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	-	-	0.2	-	0.2	-	-	-	0.1	-	0.1	-
Alta.	0.4	0.8	1.3	2.3	0.4	0.3	0.3	1.2	0.4	0.6	0.8	1.8
B.C.	-	0.1	0.1	0.1	-	-	-	0.1	-	0.1	-	0.1
Canada <sup>1</sup>	3.1	3.3	3.8	4.0	1.6	1.4	1.6	2.0	2.3	2.3	2.7	3.0



TABLE L.2 (Concluded)

DRUG-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, RATES PER 100,000 POPULATION, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

Province	Nondependent Abuse of Drugs <sup>2</sup>											
	Male					Female					Total	
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	2.4	3.2	11.6	4.9	-	2.5	3.2	0.7	1.2	2.8	7.4	2.8
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	32.4	26.5	26.9	28.6	4.1	9.1	7.7	7.2	18.1	17.7	17.1	17.7
N.B.	3.4	-	-	-	1.4	-	-	-	2.4	-	-	-
Que.	3.2	3.3	3.3	2.1	1.7	1.7	1.0	1.3	2.4	2.5	2.1	1.7
Ont.	5.8	5.5	5.2	5.5	1.8	1.8	1.7	1.9	3.8	3.7	3.4	3.7
Man.	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	1.2	2.4	0.6	0.8	-	0.6	0.2	0.2	0.6	1.5	0.4	0.5
Alta.	2.5	4.0	15.1	8.2	0.6	1.3	3.6	2.8	1.6	2.7	9.4	5.5
B.C.	0.1	0.1	0.5	1.2	-	-	0.2	0.5	0.0	0.1	0.3	0.8
Canada <sup>1</sup>	4.5	4.3	5.4	4.6	1.3	1.6	1.6	1.6	2.9	2.9	3.5	3.1
Canada <sup>1,3</sup>	1.7	1.7	2.2	2.2	0.8	0.8	0.7	0.9	1.2	1.3	1.5	1.5

Province	Total Drug-Related Problems <sup>2</sup>											
	Male					Female					Total	
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	5.2	5.3	14.1	9.5	0.4	4.2	4.2	2.8	2.8	4.7	9.2	6.2
P.E.I.	4.8	11.2	6.3	7.9	-	1.6	3.1	-	2.4	6.3	4.7	3.9
N.S.	41.5	34.2	45.6	50.4	6.6	11.3	12.4	13.9	23.9	22.6	28.8	31.9
N.B.	8.3	-	-	-	2.5	-	-	-	5.4	-	-	-
Que.	8.4	8.7	8.7	8.8	4.2	3.4	3.2	3.9	6.3	6.0	5.9	6.3
Ont.	13.8	13.0	12.5	11.6	5.1	5.1	5.1	5.4	9.4	9.0	8.7	8.4
Man.	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	1.2	2.6	1.0	0.8	0.2	0.6	0.2	0.2	0.7	1.6	0.6	0.5
Alta.	9.8	9.3	19.6	13.9	2.4	2.6	5.1	4.6	6.2	6.0	12.4	9.3
B.C.	0.8	0.9	1.5	1.6	0.3	0.2	0.3	0.7	0.6	0.6	0.9	1.2
Canada <sup>1</sup>	10.0	9.3	10.7	9.9	3.5	3.5	3.7	4.0	6.7	6.4	7.2	6.9
Canada <sup>1,3</sup>	7.3	6.7	7.5	7.6	2.9	2.7	2.9	3.3	5.1	4.7	5.2	5.4

See corresponding notes, Table L.1.

Sources: Canadian Centre for Health Information, Statistics Canada. For a complete list of sources see Table L.1.



TABLE L.3

DRUG-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, RATES PER 100,000 POPULATION AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

Province	Drug Psychoses															
	Male							Female							Total	
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	2.8	3.4	2.8	6.6	-	0.5	0.5	0.5	-	-	-	-	1.4	1.9	1.6	3.5
P.E.I.	-	2.4	-	2.3	-	-	-	-	-	-	-	-	-	1.2	-	1.1
N.S.	10.6	6.8	9.0	7.6	2.6	2.9	2.2	0.6	2.6	2.9	2.2	0.6	6.5	4.8	5.5	4.0
N.B.	4.7	-	-	-	-	-	-	-	-	-	-	-	2.3	-	-	-
Que.	0.8	1.2	0.9	0.9	0.4	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.6	0.7	0.5	0.6
Ont.	4.8	3.3	2.5	2.0	1.2	1.1	1.1	1.0	1.2	1.1	1.1	1.0	2.9	2.1	1.8	1.5
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	-	0.3	0.3	-	-	-	-	-	-	-	-	-	-	0.1	0.1	-
Alta.	10.1	6.5	4.8	5.0	2.0	1.5	1.7	0.9	2.0	1.5	1.7	0.9	6.1	4.0	3.3	2.9
B.C.	1.1	0.9	1.3	0.6	0.4	0.3	0.2	0.2	0.4	0.3	0.2	0.2	0.7	0.6	0.7	0.4
Canada <sup>1</sup>	3.5	2.5	2.1	1.9	0.8	0.7	0.7	0.5	0.8	0.7	0.7	0.5	2.1	1.6	1.4	1.2

Province	Drug Dependence Syndrome															
	Male							Female							Total	
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	1.7	-	1.1	0.6	0.6	2.2	1.1	2.7	0.6	2.2	1.1	2.7	1.1	1.1	1.1	1.6
P.E.I.	7.3	14.4	9.5	9.4	-	2.3	4.5	-	-	2.3	4.5	-	3.6	8.2	6.9	4.6
N.S.	2.7	4.4	18.1	23.8	1.0	0.3	4.4	8.7	1.0	0.3	4.4	8.7	1.8	2.3	11.0	16.0
N.B.	2.6	-	-	-	1.6	-	-	-	1.6	-	-	-	2.1	-	-	-
Que.	6.7	6.5	6.7	8.4	3.0	2.1	2.8	3.3	3.0	2.1	2.8	3.3	4.8	4.2	4.7	5.8
Ont.	6.7	7.3	7.7	6.5	3.3	3.5	3.5	3.7	3.3	3.5	3.5	3.7	5.0	5.3	5.5	5.1
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	-	-	0.3	-	0.3	-	-	-	0.3	-	-	-	0.1	-	0.1	-
Alta.	0.6	1.2	1.8	3.4	0.6	0.4	0.4	1.7	0.6	0.4	0.4	1.7	0.6	0.8	1.1	2.6
B.C.	-	0.2	0.1	0.1	-	-	-	0.1	-	-	-	0.1	-	0.1	-	0.1
Canada <sup>1</sup>	4.4	4.7	5.4	5.7	2.2	1.9	2.3	2.8	2.2	1.9	2.3	2.8	3.3	3.3	3.8	4.2

TABLE L.3 (Concluded)

DRUG-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, RATES PER 100,000 POPULATION AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1984-85 TO 1987-88

Province	Nondependent Abuse of Drugs <sup>2</sup>															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	4.0	5.0	18.3	7.7	-	-	4.9	1.1	-	-	-	-	2.0	-	-	4.3
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	47.7	38.6	38.8	41.0	5.8	12.7	10.7	9.9	26.1	25.3	24.3	25.0	26.1	25.3	24.3	25.0
N.B.	5.1	-	-	-	2.0	-	-	-	3.5	-	-	-	3.5	-	-	-
Que.	4.6	4.7	4.6	3.0	2.4	2.3	1.3	1.7	3.4	3.4	2.9	2.3	3.4	3.4	2.9	2.3
Ont.	8.4	7.9	7.4	7.8	2.5	2.5	2.3	2.6	5.3	5.1	4.8	5.1	5.3	5.1	4.8	5.1
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	1.8	3.5	0.9	1.2	0.9	0.9	0.3	0.3	0.9	2.2	0.6	0.7	0.9	2.2	0.6	0.7
Alta.	3.8	6.0	22.1	12.0	0.9	1.9	5.3	4.0	2.3	3.9	13.7	8.0	2.3	3.9	13.7	8.0
B.C.	0.1	0.2	0.7	1.6	-	-	0.3	0.7	-	0.1	0.5	1.2	-	0.1	0.5	1.2
Canada <sup>1</sup>	6.5	6.2	7.7	6.5	1.9	2.2	2.2	2.2	4.1	4.1	4.9	4.3	4.1	4.1	4.9	4.3
Canada <sup>1,3</sup>	2.5	2.5	3.2	3.1	1.1	1.1	1.0	1.2	1.8	1.8	2.1	2.1	1.8	1.8	2.1	2.1

Total Drug-Related Problems<sup>2</sup>

Province	Total Drug-Related Problems <sup>2</sup>															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Nfld.	8.5	8.4	22.2	14.9	0.6	6.6	6.5	4.3	4.5	7.5	14.3	9.5	4.5	7.5	14.3	9.5
P.E.I.	7.3	16.7	9.5	11.7	-	2.3	4.5	-	3.6	9.3	6.9	5.7	3.6	9.3	6.9	5.7
N.S.	61.1	49.7	65.9	72.3	9.4	15.9	17.3	19.2	34.5	32.3	40.8	45.0	34.5	32.3	40.8	45.0
N.B.	12.4	-	-	-	3.7	-	-	-	7.9	-	-	-	7.9	-	-	-
Que.	12.1	12.4	12.3	12.3	5.8	4.6	4.4	5.3	8.8	8.3	8.2	8.7	8.8	8.3	8.2	8.7
Ont.	19.8	18.4	17.7	16.3	7.0	7.1	6.9	7.3	13.2	12.5	12.1	11.6	13.2	12.5	12.1	11.6
Man.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	1.8	3.8	1.5	1.2	0.3	0.9	0.3	0.3	1.0	2.3	0.9	0.7	1.0	2.3	0.9	0.7
Alta.	14.5	13.7	28.8	20.5	3.6	3.7	7.4	6.6	9.1	8.7	18.1	13.5	9.1	8.7	18.1	13.5
B.C.	1.2	1.3	2.0	2.3	0.4	0.3	0.5	1.0	0.7	0.8	1.2	1.6	0.7	0.8	1.2	1.6
Canada <sup>1</sup>	14.4	13.4	15.3	14.1	4.9	4.9	5.1	5.5	9.5	9.0	10.1	9.7	9.5	9.0	10.1	9.7
Canada <sup>1,3</sup>	10.5	9.7	10.7	10.8	4.1	3.8	4.0	4.5	7.2	6.6	7.2	7.5	7.2	6.6	7.2	7.5

See corresponding notes, Table L.1.

Sources: Canadian Centre for Health Information, Statistics Canada. For a complete list of sources see Table L.1.

TABLE L.4

DRUG-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, BY AGE AND SEX,  
CANADA<sup>1</sup>, 1984-85 TO 1987-88

Age	Drug Psychoses															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Under 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	48	43	26	24	8	10	7	8	56	53	33	32	131	95	87	74
20-24	108	72	71	65	23	23	16	9	131	99	81	62	135	99	81	62
25-34	106	79	61	48	29	20	20	14	26	13	19	23	26	13	19	23
35-44	22	13	13	16	4	-	6	7	20	17	14	21	7	5	9	3
45-64	12	9	6	14	8	8	8	7	7	7	5	3	3	2	10	7
65-74	5	-	6	2	2	5	3	6	378	284	253	222	n.a.	n.a.	n.a.	n.a.
75+	1	2	4	1	2	-	6	6	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total	302	218	187	170	76	66	66	52	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Median Age	24	24	24	24	26	25	29	28	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Age	Drug Dependence Syndrome															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Under 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	50	65	47	50	13	16	19	22	63	81	66	72	154	127	148	151
20-24	115	90	117	109	39	37	31	42	209	229	292	353	209	229	292	353
25-34	156	167	215	243	53	62	77	110	76	85	110	116	76	85	110	116
35-44	40	55	63	73	36	30	47	43	65	54	57	72	65	54	57	72
45-64	17	25	27	35	48	29	30	37	7	6	11	6	7	6	11	6
65-74	2	3	5	1	5	3	6	5	3	1	1	2	3	1	1	2
75+	-	1	1	1	3	-	-	1	1	1	1	1	1	1	1	1
Total	380	406	476	512	197	177	210	261	577	583	686	773	n.a.	n.a.	n.a.	n.a.
Median Age	26	27	27	28	33	31	31	29	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.



TABLE L.4 (Concluded)

DRUG-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

Age	Nondependent Abuse of Drugs <sup>2</sup>															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Under 15	-	1	2	1	1	1	-	2	1	2	2	2	1	2	2	3
15-19	46	55	66	51	20	23	16	20	23	16	20	20	66	78	82	71
20-24	103	110	108	89	25	32	31	26	32	31	26	26	128	142	139	115
25-34	190	182	240	210	47	69	62	62	69	62	62	62	237	251	302	272
35-44	119	83	146	126	32	42	49	55	42	49	55	55	151	125	195	181
45-64	82	89	100	88	38	34	38	41	38	34	38	41	120	123	138	129
65-74	10	14	16	12	6	3	5	2	3	3	5	2	16	17	21	14
75+	4	2	3	2	1	1	1	2	1	1	1	2	5	3	4	4
<b>Total</b>	<b>554</b>	<b>536</b>	<b>681</b>	<b>579</b>	<b>170</b>	<b>205</b>	<b>202</b>	<b>210</b>	<b>205</b>	<b>202</b>	<b>210</b>	<b>210</b>	<b>724</b>	<b>741</b>	<b>883</b>	<b>789</b>
<b>Total<sup>3</sup></b>	<b>216</b>	<b>215</b>	<b>279</b>	<b>280</b>	<b>97</b>	<b>104</b>	<b>95</b>	<b>112</b>	<b>104</b>	<b>95</b>	<b>112</b>	<b>112</b>	<b>313</b>	<b>319</b>	<b>374</b>	<b>392</b>
<b>Median Age</b>	<b>30</b>	<b>29</b>	<b>31</b>	<b>31</b>	<b>33</b>	<b>31</b>	<b>33</b>	<b>34</b>	<b>31</b>	<b>33</b>	<b>34</b>	<b>34</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>

Age	Total Drug-Related Problems <sup>2</sup>															
	Male						Female						Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Under 15	-	1	3	1	1	1	-	3	1	1	3	3	1	2	3	4
15-19	144	163	139	125	41	49	42	50	41	49	42	50	185	212	181	175
20-24	326	272	296	263	87	92	78	77	87	92	78	77	413	364	374	340
25-34	452	428	516	501	129	151	159	186	129	151	159	186	581	579	675	687
35-44	181	151	222	215	72	72	102	105	72	72	102	105	253	223	324	320
45-64	111	123	133	137	94	71	76	85	94	71	76	85	205	194	209	222
65-74	17	17	27	15	13	11	14	8	13	11	14	8	30	28	41	23
75+	5	5	8	4	6	1	7	9	6	1	7	9	11	6	15	13
<b>Total</b>	<b>1,236</b>	<b>1,160</b>	<b>1,344</b>	<b>1,261</b>	<b>443</b>	<b>448</b>	<b>478</b>	<b>523</b>	<b>443</b>	<b>448</b>	<b>478</b>	<b>523</b>	<b>1,679</b>	<b>1,608</b>	<b>1,822</b>	<b>1,784</b>
<b>Total<sup>3</sup></b>	<b>898</b>	<b>839</b>	<b>942</b>	<b>962</b>	<b>370</b>	<b>347</b>	<b>371</b>	<b>425</b>	<b>370</b>	<b>347</b>	<b>371</b>	<b>425</b>	<b>1,268</b>	<b>1,186</b>	<b>1,313</b>	<b>1,387</b>
<b>Median Age</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>

See corresponding notes, Table L.1.

Sources: Canadian Centre for Health Information, Statistics Canada. For a complete list of sources see Table L.1.



TABLE L.5

DRUG-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, RATES PER 100,000 POPULATION, BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

Age	Drug Psychoses												
	Male						Female						
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	
Under 15	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	4.7	4.3	2.6	2.4	0.8	1.0	0.7	0.9	2.8	2.7	1.7	1.7	-
20-24	9.1	6.2	6.3	5.9	2.0	2.0	1.4	0.8	5.5	4.1	3.9	3.4	-
25-34	4.8	3.6	2.7	2.1	1.3	0.9	0.9	0.6	3.1	2.2	1.8	1.3	-
35-44	1.3	0.7	0.7	0.8	0.2	-	0.3	0.4	0.8	0.4	0.5	0.6	-
45-64	0.5	0.4	0.2	0.6	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.4	-
65-74	0.7	-	0.8	0.3	0.2	0.6	0.3	0.1	0.4	0.3	0.5	0.2	-
75+	0.3	0.5	1.0	0.2	0.3	-	0.9	0.9	0.3	0.2	1.0	0.6	-
All Ages	2.4	1.8	1.5	1.3	0.6	0.5	0.5	0.4	1.5	1.1	1.0	0.9	-

Age	Drug Dependence Syndrome												
	Male						Female						
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	
Under 15	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	4.8	6.5	4.8	5.1	1.3	1.7	2.0	2.4	3.1	4.1	3.4	3.8	-
20-24	9.7	7.7	10.3	9.9	3.3	3.2	2.8	3.9	6.5	5.5	6.6	6.9	-
25-34	7.1	7.5	9.5	10.6	2.4	2.8	3.4	4.7	4.7	5.1	6.4	7.7	-
35-44	2.3	3.1	3.5	3.9	2.1	1.7	2.6	2.3	2.2	2.4	3.0	3.1	-
45-64	0.7	1.1	1.1	1.4	2.0	1.2	1.2	1.5	1.4	1.1	1.2	1.5	-
65-74	0.3	0.4	0.7	0.1	0.6	0.3	0.7	0.5	0.4	0.4	0.7	0.4	-
75+	-	0.3	0.3	0.2	0.5	-	-	0.1	0.3	0.1	0.1	0.2	-
All Ages	3.1	3.3	3.8	4.1	1.6	1.4	1.6	2.0	2.3	2.3	2.7	3.0	-

TABLE L.5 (Concluded)

DRUG-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS, RATES PER 100,000 POPULATION, BY AGE AND SEX, CANADA<sup>1</sup>, 1984-85 TO 1987-88

Age	Nondependent Abuse of Drugs <sup>2</sup>											
	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Under 15	-	-	0.1	-	-	-	-	0.1	-	-	-	-
15-19	4.5	5.5	6.7	5.2	2.0	2.4	1.7	2.1	3.3	4.0	4.2	3.7
20-24	8.7	9.4	9.5	8.1	2.1	2.8	2.8	2.4	5.4	6.1	6.2	5.2
25-34	8.7	8.2	10.7	9.2	2.1	3.1	2.7	2.7	5.4	5.6	6.7	5.9
35-44	7.0	4.7	8.0	6.7	1.9	2.4	2.7	2.9	4.4	3.5	5.4	4.8
45-64	3.5	3.7	4.2	3.6	1.6	1.4	1.5	1.6	2.5	2.5	2.8	2.6
65-74	1.4	1.9	2.2	1.6	0.7	0.3	0.5	0.2	1.0	1.1	1.3	0.8
75+	1.1	0.5	0.8	0.5	0.2	0.2	0.2	0.3	0.5	0.3	0.4	0.4
All Ages	4.5	4.3	5.4	4.6	1.3	1.6	1.6	1.6	2.9	2.9	3.5	3.1
All Ages <sup>3</sup>	1.7	1.7	2.2	2.2	0.8	0.8	0.7	0.9	1.3	1.3	1.5	1.5

Age	Total Drug-Related Problems <sup>2</sup>											
	Male				Female				Total			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Under 15	-	-	0.1	-	-	-	-	0.1	-	-	-	-
15-19	14.0	16.3	14.1	12.7	4.1	5.1	4.5	5.4	9.2	10.9	9.4	9.2
20-24	27.5	23.2	26.1	23.8	7.4	7.9	6.9	7.1	17.5	15.6	16.6	15.5
25-34	20.6	19.3	22.9	21.9	5.8	6.7	7.0	8.0	13.2	13.0	14.9	14.9
35-44	10.6	8.5	12.2	11.4	4.3	4.1	5.6	5.6	7.4	6.3	8.9	8.5
45-64	4.7	5.2	5.5	5.6	3.8	2.9	3.1	3.4	4.3	4.0	4.3	4.5
65-74	2.4	2.4	3.7	2.0	1.5	1.2	1.5	0.8	1.9	1.7	2.5	1.3
75+	1.3	1.3	2.0	1.0	1.0	0.2	1.1	1.3	1.1	0.6	1.4	1.2
All Ages	10.0	9.3	10.7	10.0	3.5	3.5	3.7	4.0	6.7	6.4	7.2	7.0
All Ages <sup>3</sup>	7.3	6.8	7.5	7.6	2.9	2.7	2.9	3.3	5.1	4.7	5.2	5.4

See corresponding notes, Table L.1.

Sources: Canadian Centre for Health Information, Statistics Canada. For a complete list of sources see Table L.1.

TABLE L.6

## DRUG-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS BY LENGTH OF STAY, CANADA<sup>1</sup>, 1984-85 TO 1987-88

Length of Stay	Drug Psychoses							
	Number of Male				Number of Female			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Under 3 days	18	12	19	9	10	6	2	5
3-5 days	27	18	23	20	6	5	4	6
6-8 days	26	23	17	17	6	5	7	4
9-12 days	26	25	15	14	5	6	2	4
13-16 days	31	18	14	13	8	2	4	4
17-30 days	61	35	32	31	10	13	18	11
31-90 days	74	61	43	45	24	19	24	12
91-365 days	32	23	19	17	7	10	5	4
1 year & over	7	3	5	4	-	-	-	2
<b>Total</b>	<b>302</b>	<b>218</b>	<b>187</b>	<b>170</b>	<b>76</b>	<b>66</b>	<b>66</b>	<b>52</b>
<b>Mean (days)</b>	<b>53</b>	<b>52</b>	<b>182</b>	<b>49</b>	<b>37</b>	<b>50</b>	<b>43</b>	<b>134</b>
<b>Median (days)</b>	<b>20</b>	<b>21</b>	<b>18</b>	<b>21</b>	<b>19</b>	<b>24</b>	<b>26</b>	<b>18</b>

Length of Stay	Drug Dependence Syndrome							
	Number of Male				Number of Female			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Under 3 days	36	45	74	90	15	18	27	34
3-5 days	45	45	56	83	11	14	29	32
6-8 days	36	47	47	55	15	18	17	32
9-12 days	43	33	28	41	14	11	14	19
13-16 days	36	34	42	39	15	7	17	23
17-30 days	107	120	138	126	64	62	53	70
31-90 days	69	73	75	72	54	42	43	45
91-365 days	7	8	16	3	9	4	10	6
1 year & over	1	1	-	3	-	1	-	-
<b>Total</b>	<b>380</b>	<b>406</b>	<b>476</b>	<b>512</b>	<b>197</b>	<b>177</b>	<b>210</b>	<b>261</b>
<b>Mean (days)</b>	<b>23</b>	<b>22</b>	<b>23</b>	<b>19</b>	<b>30</b>	<b>34</b>	<b>26</b>	<b>21</b>
<b>Median (days)</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>11</b>	<b>23</b>	<b>23</b>	<b>17</b>	<b>15</b>

Length of Stay	Nondependent Abuse of Drug <sup>2</sup>							
	Number of Male				Number of Female			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Under 3 days	118	106	117	106	28	47	43	37
3-5 days	110	77	91	102	42	37	32	34
6-8 days	60	54	78	60	18	21	13	10
9-12 days	42	44	40	50	11	18	16	18
13-16 days	30	44	51	44	8	12	13	13
17-30 days	110	126	175	125	26	29	42	45
31-90 days	67	73	108	70	30	34	34	43
91-365 days	15	12	19	18	6	7	9	8
1 year & over	2	-	2	4	1	-	-	2
<b>Total</b>	<b>554</b>	<b>536</b>	<b>681</b>	<b>579</b>	<b>170</b>	<b>205</b>	<b>202</b>	<b>210</b>
<b>Mean (days)</b>	<b>21</b>	<b>20</b>	<b>23</b>	<b>27</b>	<b>25</b>	<b>20</b>	<b>22</b>	<b>29</b>
<b>Median (days)</b>	<b>8</b>	<b>11</b>	<b>14</b>	<b>11</b>	<b>8</b>	<b>8</b>	<b>12</b>	<b>14</b>



TABLE L.6 (Concluded)

### DRUG-RELATED SEPARATIONS FROM PSYCHIATRIC HOSPITALS BY LENGTH OF STAY, CANADA<sup>1</sup>, 1984-85 TO 1987-88

Length of Stay	All Drug-Related Problems <sup>2</sup>							
	Number of Male				Number of Female			
	1984-85	1985-86	1986-87	1987-88	1984-85	1985-86	1986-87	1987-88
Under 3 days	172	163	210	205	53	71	72	76
3- 5 days	182	140	170	205	59	56	65	72
6- 8 days	122	124	142	132	39	44	37	46
9- 12 days	111	102	83	105	30	35	32	41
13-16 days	97	96	107	96	31	21	34	40
17-30 days	278	281	345	282	100	104	113	126
31-90 days	210	207	226	187	108	95	101	100
91-365 days	54	43	54	38	22	21	24	18
1 year & over	10	4	7	11	1	1	-	4
<b>Total</b>	<b>1,236</b>	<b>1,160</b>	<b>1,344</b>	<b>1,261</b>	<b>443</b>	<b>448</b>	<b>478</b>	<b>523</b>
Mean (days)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Median (days)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

See corresponding notes in Table L.1.

Sources: Statistics Canada, Mental Health Statistics 1984-85 (Ottawa: Statistics Canada, Catalogue No. 83-204, 1988); Statistics Canada, Health Reports Supplement No. 3, Volume 2, Number 1 - Mental Health Statistics 1985-86 Revised, (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990); Health Reports Supplement No. 3, Volume 2, Number 2 - Mental Health Statistics 1986-87, (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990); Health Reports Supplement No. 3, Volume 2, Number 2 - Mental Health Statistics 1987-88, (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990).



**TABLE L.7**

**PERCENTAGE OF HOSPITAL SEPARATIONS AND PATIENT-DAYS FROM PSYCHIATRIC HOSPITALS FOR DRUG-RELATED CASES RELATIVE TO TOTAL FOR ALL DIAGNOSTIC CATEGORIES, CANADA AND PROVINCES, 1984-85 TO 1987-88**

Province	Hospital Separations			
	1984-85	1985-86	1986-87	1987-88
Nfld.	1.5	2.5	4.6	3.0
P.E.I.	2.2	5.7	4.3	3.3
N.S.	7.8	7.2	9.1	10.3
N.B.	6.5	-	-	-
Que.	4.3	4.2	4.3	4.6
Ont.	4.6	4.8	4.8	4.6
Man.	-	-	-	-
Sask.	1.5	3.8	2.6	2.1
Alta.	6.6	6.4	12.6	9.2
B.C.	1.2	1.4	2.6	3.3
Canada <sup>1,2</sup>	4.6	4.7	5.4	5.3
Canada <sup>2,3</sup>	3.5	3.5	3.9	4.1

	Patient-Days			
Canada <sup>1,2</sup>	0.7	0.6	1.1	1.5

See corresponding notes, Table L.1.

Sources: Statistics Canada, Mental Health Statistics 1984-85 (Ottawa: Statistics Canada, Catalogue No. 83-204, 1988); Statistics Canada, Health Reports Supplement No. 3, Volume 2, Number 1 - Mental Health Statistics 1985-86 Revised, (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990); Health Reports Supplement No. 3, Volume 2, Number 2 - Mental Health Statistics 1986-87, (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990); Health Reports Supplement No. 3, Volume 2, Number 2 - Mental Health Statistics 1987-88, (Ottawa: Statistics Canada, Catalogue No. 82-003s, 1990).



**Chapter M** \_\_\_\_\_  
**ALCOHOL-RELATED MORTALITY IN CANADA**

## Chapter M

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# ALCOHOL-RELATED MORTALITY IN CANADA

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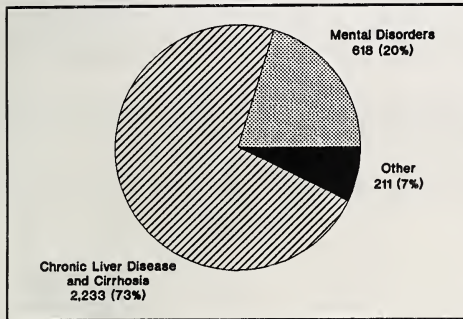
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## M. ALCOHOL-RELATED MORTALITY IN CANADA

### Highlights

Figure M.1  
Alcohol-Related Deaths by Cause, Canada, 1989



The number of deaths in Canada directly attributable to alcohol increased by 8% (from the 1988 level) to 3,062 in 1989 (Table M.1). Deaths from chronic liver disease and cirrhosis<sup>1</sup> accounted for 70% (2,233) of this total (Figure M.1). Mental disorders, including 452 deaths due to alcohol dependence syndrome, 50 due to alcoholic psychoses and 116 due to nondependent abuse of alcohol, represented 20% of all alcohol deaths, while other causes<sup>2</sup> accounted for the remaining 11% (Figure M.1, Table M.1).

The alcohol mortality rate per 100,000 population, aged 20 and over, increased by almost 7% to 16.2 in 1989 (Table M.3). Much of this increase was accounted for by the rise in the Northwest Territories, British Columbia and Quebec. The rise

in the national rate in 1989 interrupted two consecutive years of decline (Figure M.2, Table M.3). Saskatchewan and Alberta were the only provinces that have experienced a steady reduction in rates since 1986 (Figure M.2, Table M.3).

In total, 70% of all alcohol mortality in 1989 occurred among men, about the same proportion as the previous year (Table M.4). Of these deaths, 42% involved men aged 50 and over (Table M.4). On average, 77% of deaths from mental-related diagnoses, 68% from diseases of the digestive system, and 75% from injury and poisoning, occurred among men (Table M.4).

During 1989, alcohol mortality accounted for 1.6% of all deaths in Canada, compared to 1.5% one year ago (Table M.6). Alcohol-related deaths as a percentage of total deaths was highest in the Yukon, at 4.2% of all deaths.

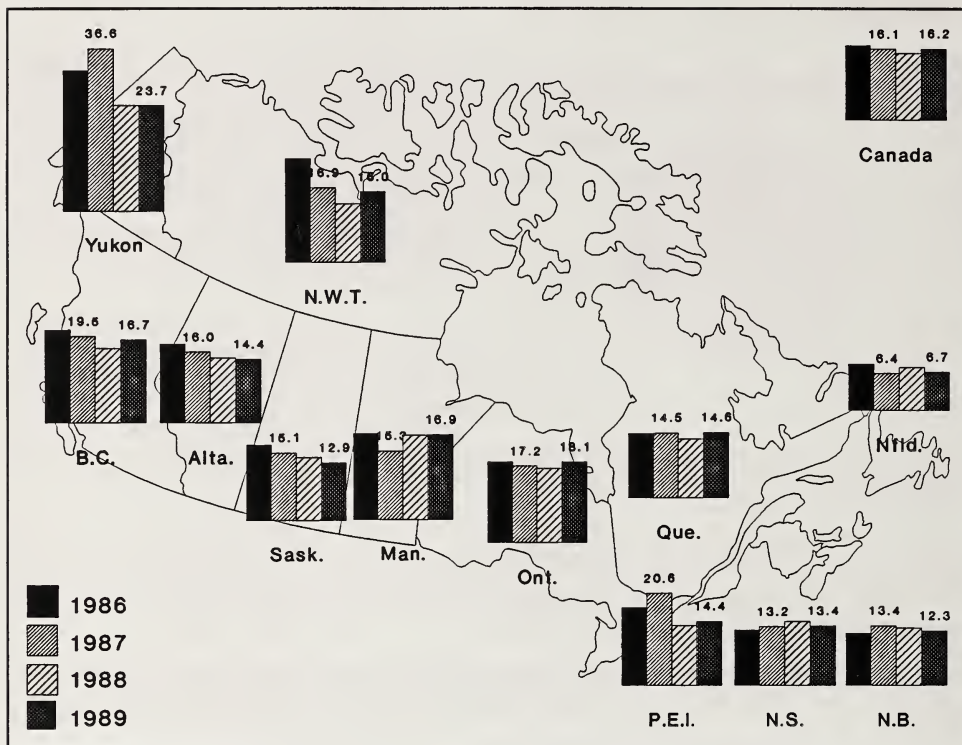
The number of *indirect*<sup>3</sup> deaths in Canada due to alcohol rose by 1% to 15,960 in 1989 (Table M.7). Neoplasms accounted for 33% of all *indirect* deaths while the corresponding figures for diseases of the circulatory system, respiratory system, motor vehicle accidents were 24%, 15% and 13% respectively (Table M.7). The national rate per 100,000 population for *indirect* deaths due to alcohol was down marginally from a year ago. Only four provinces recorded a lower rate than the national average: Newfoundland, Ontario, Alberta and the Northwest Territories (Table M.8). The national mortality rate for those aged 20 and over also declined slightly in the year to 84.7 (Table M.9). Saskatchewan recorded the highest rate (98.2), followed by Nova Scotia (97.9) and the Northwest Territories (96.2) (Table M.9).

<sup>1</sup> Includes 1,004 chronic liver disease and cirrhosis deaths where alcohol involvement was specified; 127 cases of specified chronic liver disease and cirrhosis without mention of alcohol; and 1,102 chronic liver disease and cirrhosis deaths of unspecified type, but with no mention of alcohol. While alcohol was not specifically mentioned in the last two categories it may still be a factor.

<sup>2</sup> Other causes included 127 cases of specified liver disease, 112 cases of toxic effects, 84 cases of alcoholic cardiomyopathy, and 15 cases of alcoholic gastritis.

<sup>3</sup> The number of deaths *indirectly* due to alcohol have been estimated on the basis of data provided by the Working Group on Alcohol Statistics in *Alcohol in Canada: A National Perspective* (Ottawa: National Health and Welfare, 1984). These estimates by cause of death are as follows: Neoplasms - 10%; diseases of the circulatory system - 5%; diseases of the respiratory system - 15%; motor vehicle accidents - 45%; accidents caused by fire and flames - 30%; accidental drowning and submersion - 30%; suicide and self-inflicted injury - 30%; and homicide - 60%.

**Figure M.2**  
**Total Alcohol-Related Death Rates per 100,00 Population, Aged 20 and Over, Canada and Provinces, 1986 to 1989**



## Explanatory Notes

Due to the provincial and territorial Vital Statistics Acts or equivalent legislation, registration of all deaths in Canada is compulsory. Statistics Canada is responsible for the design and printing of a standard registration form to ensure uniformity in the information that it collects and subsequently disseminates.

The legal reporting requirements render the death registrations to be virtually complete. For example, for the 5 year period 1982-1986, the completeness of 8 out of the 11 core data items has been over 99%.

Information received after a cut-off date are entered but not edited, resulting in some under coverage at the time of dissemination. However, the numbers are small. For example, in 1986, late registration accounted for less than one quarter of one per cent of the reported deaths.

The data reported are classified according to the 9th Revision of the International Classification (ICD-9) which has been used in Canada since 1979. For medical conditions included under each diagnostic category see Technical Notes in Appendix B.

## **References**

Statistics Canada, Causes of Death - Vital Statistics Volume IV, 1985, 1986, (Ottawa: Statistics Canada, Catalogue No. 84-203, 1986 and 1988).

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Health and Welfare Canada, Alcohol in Canada: A National Perspective (Ottawa: National Health and Welfare, 1984).

TABLE M.1

## DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

MENTAL HEALTH:

Province	Alcoholic Psychoses													
	Male					Female					Total			
	1986	1987	1988	1989		1986	1987	1988	1989		1986	1987	1988	1989
Nfld.	-	-	2	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	2	3	-	-	-	-	1	-	-	-	2	4
N.B.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Que.	8	3	4	7	-	-	1	2	1	-	8	4	6	8
Ont.	16	16	14	16	-	2	5	4	4	-	18	21	18	20
Man.	3	3	4	1	-	-	3	-	-	-	3	6	4	1
Sask.	3	-	1	1	-	-	-	1	-	-	3	2	2	1
Alta.	4	4	3	2	-	2	-	1	-	-	6	4	4	2
B.C.	3	13	7	12	-	1	1	-	2	-	4	14	7	14
Yukon	1	-	-	-	-	-	-	-	-	-	1	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Canada	38	39	37	42	-	5	10	8	8	-	43	49	45	50

Alcohol Dependence Syndrome

Province	Alcohol Dependence Syndrome													
	Male					Female					Total			
	1986	1987	1988	1989		1986	1987	1988	1989		1986	1987	1988	1989
Nfld.	3	4	-	1	-	1	-	-	-	-	4	4	-	1
P.E.I.	1	5	-	1	-	2	-	1	-	-	3	5	1	1
N.S.	9	15	13	16	-	2	5	3	2	-	11	20	16	18
N.B.	4	5	14	16	-	1	-	2	4	-	5	5	16	20
Que.	71	52	55	54	-	10	7	12	7	-	81	59	67	61
Ont.	129	139	140	135	-	35	37	35	50	-	164	176	175	185
Man.	23	14	22	10	-	7	7	8	11	-	30	21	30	21
Sask.	19	10	13	12	-	2	2	-	1	-	21	12	13	13
Alta.	46	54	35	36	-	23	8	10	10	-	69	62	45	46
B.C.	52	48	38	62	-	21	18	20	20	-	73	66	58	82
Yukon	2	1	2	-	-	1	2	1	2	-	3	3	3	2
N.W.T.	1	-	-	1	-	-	-	1	1	-	1	-	1	2
Canada	360	347	332	344	-	105	86	93	108	-	465	433	425	452



TABLE M.1 (Continued)

## DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

## MENTAL HEALTH (Cont'd):

Province	Nondependent Abuse of Alcohol											
	Male					Female					Total	
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	2	1	4	2	1	-	-	-	3	1	4	2
P.E.I.	-	-	-	2	-	-	-	-	-	-	-	2
N.S.	7	4	8	6	-	1	3	2	7	5	11	8
N.B.	2	4	1	3	1	1	1	5	3	5	2	3
Que.	6	10	4	10	1	1	1	5	7	11	5	15
Ont.	33	20	23	34	14	9	7	10	47	29	30	44
Man.	1	-	3	4	-	-	1	1	1	-	4	5
Sask.	5	1	1	4	2	1	5	1	7	2	6	5
Alta.	12	10	10	13	5	2	1	3	17	12	11	16
B.C.	19	14	2	11	5	2	6	3	24	16	8	14
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	2	-	1	3	-	1	1	3	2	1	2
Canada	87	66	56	90	32	17	26	26	119	83	82	116

## DISEASES OF THE CIRCULATORY SYSTEM:

Province	Alcoholic Cardiomyopathy											
	Male					Female					Total	
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	2	2	-	-	-	-	-	-	2	2
P.E.I.	-	2	-	1	-	-	-	-	-	3	2	1
N.S.	-	3	2	1	-	-	-	-	-	1	5	1
N.B.	2	1	5	1	-	-	-	-	2	1	2	11
Que.	14	8	2	10	2	1	-	1	16	9	2	24
Ont.	29	25	24	22	5	3	-	2	34	28	24	24
Man.	1	3	-	1	1	-	-	1	1	3	-	2
Sask.	2	3	2	1	-	1	-	-	2	4	2	1
Alta.	8	13	3	6	-	-	-	2	8	13	3	8
B.C.	27	24	26	27	9	6	10	6	36	30	36	33
Yukon	-	1	-	-	-	2	-	1	-	3	-	1
N.W.T.	-	-	1	-	-	-	-	-	-	-	1	-
Canada	83	83	67	71	16	13	10	13	99	96	77	84

TABLE M.1 (Continued)

DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

DISEASES OF THE DIGESTIVE SYSTEM:

Province	Alcoholic Gastritis													
	Male			Female										
	1986	1987	1988	1989	1986	1987	1988	1989	Total	1986	1987	1988	1989	
Nfld.	-	-	-	1	-	-	-	-	-	-	-	-	-	1
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	-	-	-	-	-	1	-	-	-	-	-	1
N.B.	1	-	-	1	-	-	-	1	-	-	-	-	-	3
Que.	-	-	2	2	-	-	1	1	-	-	-	3	3	
Ont.	8	4	3	1	-	-	2	3	-	-	-	4	4	
Man.	-	-	-	2	1	-	-	-	-	-	-	1	2	
Sask.	-	-	1	2	-	-	-	-	-	-	-	1	2	
Alta.	1	2	3	1	-	-	1	-	-	-	-	2	4	
B.C.	-	2	2	-	1	-	-	-	-	1	-	2	2	
Yukon	-	-	-	-	-	-	-	-	-	-	-	-	-	
N.W.T.	-	-	1	-	-	-	-	-	-	-	-	-	-	
Canada	10	8	12	10	2	1	4	5	-	12	9	16	15	

Alcohol-Related Chronic Liver Disease and Cirrhosis

Province	Alcohol-Related Chronic Liver Disease and Cirrhosis												
	Male			Female									
	1986	1987	1988	1989	1986	1987	1988	1989	Total	1986	1987	1988	1989
Nfld.	8	7	5	6	2	3	2	1	-	10	10	7	7
P.E.I.	3	2	2	2	1	-	-	2	-	4	2	2	4
N.S.	17	19	22	22	3	2	6	2	2	20	21	28	24
N.B.	12	21	7	8	5	4	3	3	-	17	25	10	11
Que.	154	152	161	174	44	42	30	39	39	198	194	191	213
Ont.	326	304	300	343	99	115	106	116	116	425	419	406	459
Man.	37	20	24	27	15	11	13	16	-	52	31	37	43
Sask.	29	28	28	26	10	8	6	7	-	39	36	34	33
Alta.	74	61	70	77	33	35	28	25	-	107	96	98	102
B.C.	106	79	85	70	50	48	39	37	-	156	127	124	107
Yukon	1	-	-	-	-	-	-	-	-	1	-	-	-
N.W.T.	-	-	-	1	-	-	-	-	-	-	-	-	-
Canada	767	693	704	756	262	268	233	248	-	1,029	961	937	1,004

TABLE M.1 (Continued)

## DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

## DISEASES OF THE DIGESTIVE SYSTEM (Cont'd):

Province	Specified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol <sup>1</sup>											
	Male		Female		Total		Male		Female		Total	
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	1	1	1	-	3	2	1	1	4	3	2	1
P.E.I.	2	1	2	1	1	1	1	1	3	3	2	1
N.S.	2	1	2	-	3	3	3	3	5	4	5	3
N.B.	2	1	7	5	3	5	5	1	5	6	12	6
Que.	15	4	10	8	12	18	15	14	27	22	25	22
Ont.	14	10	15	13	32	27	34	38	46	37	49	51
Man.	3	2	1	2	7	4	4	3	10	6	5	5
Sask.	5	3	2	2	5	4	7	4	10	7	9	6
Alta.	3	3	2	3	7	5	11	5	10	8	13	8
B.C.	11	8	5	10	16	13	10	14	27	21	15	24
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	58	34	45	44	89	82	91	83	147	116	136	127

Province	Unspecified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol <sup>1</sup>											
	Male		Female		Total		Male		Female		Total	
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	11	8	13	13	6	3	4	5	17	11	17	18
P.E.I.	1	5	5	3	4	1	3	1	5	6	8	4
N.S.	19	18	15	15	11	7	8	9	30	25	23	24
N.B.	11	15	10	10	12	6	4	7	23	21	14	17
Que.	217	255	209	221	102	133	107	140	319	388	316	361
Ont.	254	238	262	294	154	151	133	138	408	399	395	432
Man.	30	24	27	31	13	11	23	27	43	35	50	58
Sask.	19	24	15	18	13	9	10	6	32	33	25	24
Alta.	30	28	34	27	17	22	13	16	47	50	47	43
B.C.	66	75	53	80	36	45	46	41	102	120	99	121
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	1	1	-	-	-	-	-	-	1	1	-	-
Canada	659	691	643	712	368	388	351	390	1,027	1,079	994	1,102



TABLE M.1 (Continued)

DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, BY SEX,  
CANADA AND PROVINCES, 1986 TO 1989

## INJURY AND POISONING:

Province	Toxic Effects of Alcohol (N) <sup>2</sup>												
	Male					Female					Total		
	1986	1987	1988	1989		1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	1	2	1	-	-	1	-	-	-	2	2	1
P.E.I.	-	1	-	1	-	-	-	-	-	-	-	1	1
N.S.	3	4	3	2	-	1	-	-	-	4	4	3	2
N.B.	-	2	5	1	-	1	1	-	2	1	3	5	3
Que.	15	3	14	15	6	4	4	6	4	19	7	20	19
Ont.	24	31	26	30	9	15	9	8	8	33	46	35	38
Man.	3	11	7	3	-	3	6	4	4	3	14	13	7
Sask.	1	7	4	2	-	3	1	2	2	1	10	5	4
Alta.	18	10	13	12	7	4	4	3	3	25	14	17	15
B.C.	7	14	10	16	5	3	5	5	5	12	17	15	21
Yukon	-	-	1	1	-	-	-	-	-	-	-	1	1
N.W.T.	2	-	-	-	-	2	-	-	-	-	2	-	-
Canada	73	84	85	84	27	36	31	28	28	100	120	116	112

Accidental Poisoning by Alcohol (E)<sup>2</sup>

Province	Accidental Poisoning by Alcohol (E) <sup>2</sup>												
	Male					Female					Total		
	1986	1987	1988	1989		1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	2	1	-	-	1	-	-	-	1	2	1
P.E.I.	-	1	-	1	-	-	-	-	-	-	1	-	1
N.S.	1	2	3	1	-	-	-	1	-	1	2	4	1
N.B.	-	2	3	1	-	1	-	-	1	1	2	3	1
Que.	3	1	11	14	1	-	1	3	3	4	1	12	17
Ont.	20	27	20	25	6	14	8	6	6	26	41	28	31
Man.	1	8	3	3	-	2	4	-	-	1	10	7	3
Sask.	1	6	2	1	-	2	1	2	2	1	8	3	3
Alta.	-	-	-	4	-	-	-	-	-	-	-	-	5
B.C.	7	12	10	15	4	2	4	4	5	11	14	14	20
Yukon	-	-	-	1	-	-	-	-	-	-	-	-	1
N.W.T.	-	-	-	-	-	1	-	-	-	-	1	-	-
Canada	33	59	54	66	12	22	19	18	18	45	81	73	84



TABLE M.1 (Concluded)

DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

TOTAL ALL CAUSES:

Province	Total Alcohol-Related Problems <sup>3</sup>											
	Male		1988		1989		1986		Female		Total	
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	25	22	29	26	13	9	7	7	38	31	36	33
P.E.I.	7	16	7	10	8	2	5	3	15	18	12	13
N.S.	57	64	67	65	20	18	23	20	77	82	90	85
N.B.	34	49	49	45	23	17	15	17	57	66	64	62
Que.	500	487	461	501	175	207	174	212	675	694	635	713
Ont.	833	787	807	888	350	362	330	369	1,183	1,149	1,137	1,257
Man.	101	77	88	81	43	39	55	63	144	116	143	144
Sask.	83	76	67	68	32	28	30	21	115	104	97	89
Alta.	196	185	173	177	94	76	69	64	290	261	242	241
B.C.	291	277	228	288	144	137	136	128	435	414	364	416
Yukon	4	2	3	1	1	4	1	3	5	6	4	4
N.W.T.	4	3	2	3	3	2	2	2	7	5	4	5
<b>Canada</b>	<b>2,135</b>	<b>2,045</b>	<b>1,981</b>	<b>2,153</b>	<b>906</b>	<b>901</b>	<b>847</b>	<b>909</b>	<b>3,041</b>	<b>2,946</b>	<b>2,828</b>	<b>3,062</b>

1 While alcohol is not specifically mentioned, it may be a factor.

2 Number of deaths due to alcohol-related injury or poisoning are shown using two different classification systems. Under the 'N' system, deaths are classified according to Nature of Injury, whereas under the 'E' system, they are classified by External Cause. 'N' and 'E' numbers essentially refer to the same event and consequently are not additive ('N' and 'E' numbers will differ due to the coding practices employed in each classification systems).

3 Excludes E-codes to prevent double counting.

Sources: Statistics Canada, *Causes of Death - Vital Statistics Volume IV, 1986* (Ottawa: Statistics Canada, Catalogue No. 84-203, 1988); Statistics Canada, *Health Reports Supplement, Volume 1, No. 1, 1989 - Causes of Death, 1987* (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1989); Statistics Canada, *Health Reports, Supplement No. 11, 1990, Volume 2, No. 1 - Causes of Death, 1988* (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1990); Statistics Canada, *Health Reports Supplement No. 11, 1991, Volume 3, No. 1 - Causes of Death, 1989* (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1991).

TABLE M.2

## DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, RATES PER 100,000 POPULATION, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

## MENTAL HEALTH:

Province	Alcoholic Psychoses																						
	Male			Female																			
	1986	1987	1988	1986	1987	1988	1989	1986	1987	1988	1989												
Nfld.	-	-	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
P.E.I.	-	-	-	-	-	0.7	-	-	-	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.B.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Que.	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Ont.	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Man.	0.6	0.6	0.7	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.2	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	0.6	0.2	0.2	0.2	0.2	0.2	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alta.	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
B.C.	0.2	0.9	0.5	0.8	0.5	0.8	0.8	0.1	0.1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Yukon	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Canada	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

## Alcohol Dependence Syndrome

Province	Alcohol Dependence Syndrome																						
	Male			Female																			
	1986	1987	1988	1986	1987	1988	1989	1986	1987	1988	1989												
Nfld.	1.1	1.4	-	0.4	-	-	-	0.4	-	-	-	-	0.7	0.7	-	-	-	-	-	-	-	-	-
P.E.I.	1.6	7.9	-	1.6	-	-	1.5	3.1	-	-	-	-	2.4	3.9	0.8	0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.2
N.S.	2.1	3.5	3.0	3.7	3.0	3.0	0.5	0.5	1.1	1.1	0.7	0.4	1.3	2.3	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
N.B.	1.1	1.4	4.0	4.5	4.0	4.0	0.3	0.3	-	-	0.6	1.1	0.7	0.7	2.2	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Que.	2.2	1.6	1.7	1.6	1.6	1.6	0.3	0.3	0.2	0.2	0.4	0.2	1.2	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Ont.	2.9	3.1	3.0	2.9	3.0	2.9	0.8	0.8	0.8	0.8	0.7	1.0	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Man.	4.4	2.6	4.1	1.9	4.1	1.9	1.3	1.3	1.3	1.3	1.5	2.0	2.8	1.9	2.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Sask.	3.8	2.0	2.6	2.4	2.6	2.4	0.4	0.4	0.4	0.4	-	0.2	2.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Alta.	3.8	4.5	2.9	3.0	2.9	3.0	2.0	2.0	0.7	0.7	0.8	0.8	2.9	2.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
B.C.	3.6	3.3	2.6	4.1	3.3	2.6	1.4	1.4	1.2	1.2	1.3	1.3	2.5	2.3	1.9	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Yukon	16.3	7.9	15.2	-	15.2	-	8.9	8.9	17.1	17.1	8.3	16.4	12.8	12.3	11.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
N.W.T.	3.6	-	-	3.6	-	-	-	-	-	-	4.0	3.9	1.9	-	1.9	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
Canada	2.9	2.7	2.6	2.7	2.6	2.7	0.8	0.8	0.7	0.7	0.7	0.8	1.8	1.7	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7

TABLE M.2 (Continued)

DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, RATES PER 100,000 POPULATION, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

MENTAL HEALTH (Cont'd):

Province	Nondependent Abuse of Alcohol												
	Male					Female							
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989	
Nfld.	0.7	0.4	1.4	0.7	0.4	-	-	-	-	0.5	0.2	0.7	0.4
P.E.I.	-	-	-	3.1	-	-	-	-	-	-	-	-	1.5
N.S.	1.6	0.9	1.8	1.4	-	0.2	0.7	0.4	-	0.8	0.6	1.2	0.9
N.B.	0.6	1.1	0.3	0.8	0.3	0.3	0.3	-	-	0.4	0.7	0.3	0.4
Que.	0.2	0.3	0.1	0.3	-	-	-	0.1	-	0.1	0.2	0.1	0.2
Ont.	0.7	0.4	0.5	0.7	0.3	0.2	0.1	0.2	0.2	0.5	0.3	0.3	0.5
Man.	0.2	-	0.6	0.7	-	-	0.2	0.2	0.2	0.1	-	0.4	0.5
Sask.	1.0	0.2	0.2	0.8	0.4	0.2	1.0	0.2	0.7	0.2	0.2	0.6	0.5
Alta.	1.0	0.8	0.8	1.1	0.4	0.2	0.1	0.2	0.7	0.5	0.5	0.7	0.7
B.C.	1.3	1.0	0.1	0.7	0.3	0.1	0.4	0.2	0.8	0.5	0.3	0.5	0.5
Yukon	-	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	7.4	-	3.6	12.1	-	4.0	3.9	5.7	3.9	1.9	3.7	0.4
Canada	0.7	0.5	0.4	0.7	0.2	0.1	0.2	0.2	0.5	0.3	0.3	0.4	0.4

DISEASES OF THE CIRCULATORY SYSTEM:

Province	Alcoholic Cardiomyopathy												
	Male					Female							
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989	
Nfld.	-	-	0.7	0.7	-	-	-	-	-	-	-	-	0.4
P.E.I.	-	3.2	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	0.7	0.5	0.2	-	-	-	-	-	-	1.6	0.3	0.1
N.B.	0.6	0.3	1.4	0.3	-	-	-	-	0.3	0.1	0.7	0.1	0.1
Que.	0.4	0.2	0.1	0.3	0.1	-	-	-	0.2	0.1	-	0.2	0.2
Ont.	0.6	0.5	0.5	0.5	0.1	0.1	-	-	0.4	0.3	0.3	0.3	0.3
Man.	0.2	0.6	-	0.2	-	-	-	0.2	0.1	0.3	-	0.2	0.2
Sask.	0.4	0.6	0.4	0.2	-	0.2	-	-	0.2	0.4	0.2	0.1	0.1
Alta.	0.7	1.1	0.2	0.5	-	-	-	0.2	0.3	0.5	0.1	0.3	0.1
B.C.	1.9	1.7	1.8	1.8	0.6	0.4	0.7	8.2	1.2	1.0	1.2	1.1	1.1
Yukon	-	-	-	-	-	17.1	-	-	-	12.3	-	-	3.9
N.W.T.	-	-	3.7	-	-	-	-	-	-	-	-	-	-
Canada	0.7	0.7	0.5	0.5	0.1	0.1	0.1	0.1	0.4	0.4	0.3	0.3	0.3



TABLE M.2 (Continued)

## DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, RATES PER 100,000 POPULATION, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

## DISEASES OF THE DIGESTIVE SYSTEM:

Province	Alcoholic Gastritis								
	Male			Female					
	1986	1987	1988	1989	1986	1987	1988	1989	
Nfld.	-	-	-	0.4	-	-	-	-	0.2
P.E.I.	-	-	-	-	-	-	-	-	-
N.S.	-	-	-	0.3	-	-	-	-	0.1
N.B.	0.3	-	-	0.3	-	-	-	-	0.1
Que.	-	-	0.1	0.1	-	-	..	..	..
Ont.	0.2	0.1	0.1	..	-	-	..	0.1	..
Man.	-	-	0.2	0.4	0.2	-	-	-	0.2
Sask.	-	-	0.2	0.4	-	-	-	-	0.2
Alta.	0.1	0.2	0.2	0.1	-	-	0.1	-	..
B.C.	-	0.1	0.1	-	0.1	-	-	-	0.1
Yukon	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	3.7	-	-	-	-	-	-
Canada	0.1	0.1	0.1	0.1	..	..	..	..	0.1

## Alcohol-Related Chronic Liver Disease and Cirrhosis

Province	Alcohol-Related Chronic Liver Disease and Cirrhosis							
	Male			Female				
	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	2.8	2.5	1.8	2.1	0.7	1.1	0.7	0.3
P.E.I.	4.8	3.2	3.1	3.1	1.6	-	-	3.0
N.S.	3.9	4.4	5.1	5.0	0.7	0.4	1.3	0.4
N.B.	3.4	6.0	2.0	2.3	1.4	1.1	0.8	0.8
Que.	4.8	4.7	4.9	5.3	1.3	1.2	0.9	1.1
Ont.	7.3	6.7	6.5	7.3	2.1	2.4	2.2	2.4
Man.	7.0	3.8	4.5	5.1	2.8	2.0	2.4	2.9
Sask.	5.7	5.5	5.5	5.2	2.0	1.6	1.2	1.4
Alta.	6.2	5.1	5.8	6.3	2.8	3.0	2.3	2.1
B.C.	7.4	5.5	5.8	4.6	3.4	3.2	2.6	2.4
Yukon	8.1	-	-	-	-	-	-	-
N.W.T.	-	-	-	3.6	-	-	-	-
Canada	6.1	5.5	5.5	5.8	2.0	2.1	1.8	1.9





TABLE M.2 (Continued)

DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, RATES PER 100,000 POPULATION, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

INJURY AND POISONING:

Province	Toxic Effects of Alcohol (N) <sup>2</sup>												
	Male					Female					Total		
	1986	1987	1988	1989		1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	0.4	0.7	0.4	-	-	0.4	-	-	-	0.4	-	0.2
P.E.I.	-	1.6	-	1.6	-	-	-	-	-	-	0.8	-	0.8
N.S.	0.7	0.9	0.7	0.5	0.2	0.2	-	-	-	0.5	0.5	0.3	0.2
N.B.	-	0.6	1.4	0.3	0.3	0.3	0.3	-	0.5	0.1	0.4	0.7	0.4
Que.	0.5	0.1	0.4	0.5	0.1	0.1	0.1	0.2	0.1	0.3	0.1	0.3	0.3
Ont.	0.5	0.7	0.6	0.6	0.2	0.2	0.3	0.2	0.2	0.4	0.5	0.4	0.4
Man.	0.6	2.1	1.3	0.6	-	-	0.5	1.1	0.7	0.3	1.3	1.2	0.6
Sask.	0.2	1.4	0.8	0.4	-	-	0.6	0.2	0.4	0.1	1.0	0.5	0.4
Alta.	1.5	0.8	1.1	1.0	0.6	0.3	0.3	0.3	0.2	1.1	0.6	0.7	0.6
B.C.	0.5	1.0	0.7	1.1	0.3	0.3	0.2	0.3	0.3	0.4	0.6	0.5	0.7
Yukon	-	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	7.3	-	-	-	-	8.1	-	-	-	-	3.9	-	-
Canada	0.6	0.7	0.7	0.6	0.2	0.2	0.3	0.2	0.2	0.4	0.5	0.4	0.4

Accidental Poisoning by Alcohol (E)<sup>2</sup>

Province	Accidental Poisoning by Alcohol (E) <sup>2</sup>												
	Male					Female					Total		
	1986	1987	1988	1989		1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	0.7	0.4	-	-	0.4	-	-	-	0.2	0.4	0.2
P.E.I.	-	1.6	-	1.6	-	-	-	-	-	-	0.8	-	0.8
N.S.	0.2	0.5	0.7	0.2	0.2	-	-	0.2	-	0.1	0.2	0.5	0.1
N.B.	-	0.6	0.9	-	0.3	0.3	-	-	0.3	0.1	0.3	0.4	0.1
Que.	0.1	-	0.3	0.4	-	-	-	-	0.1	0.1	-	0.2	0.3
Ont.	0.4	0.6	0.4	0.5	0.1	0.1	0.3	0.2	0.1	0.3	0.4	0.3	0.3
Man.	0.2	1.5	0.6	0.6	-	-	0.4	0.7	0.4	0.1	0.9	0.6	0.3
Sask.	0.2	1.2	0.4	0.2	0.2	0.2	0.4	0.2	0.4	0.1	0.8	0.3	0.3
Alta.	-	-	-	0.3	-	-	-	-	0.1	-	-	-	0.2
B.C.	0.5	0.8	0.7	1.0	0.3	0.3	0.1	0.3	0.3	0.4	0.5	0.5	0.7
Yukon	-	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	4.1	-	-	-	-	1.9	-	-
Canada	0.3	0.5	0.4	0.5	0.1	0.1	0.2	0.1	0.1	0.2	0.3	0.3	0.3

TABLE M.2 (Concluded)

DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, RATES PER 100,000 POPULATION, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

TOTAL ALL CAUSES:

Total Alcohol-Related Problems<sup>3</sup>

Province	Male		Female		Total	
	1986	1988	1987	1988	1986	1988
Nfld.	8.8	10.2	4.6	2.5	6.7	5.8
P.E.I.	11.1	11.0	12.6	3.1	11.8	10.0
N.S.	13.2	15.4	4.5	5.1	8.8	9.6
N.B.	9.7	13.9	6.4	4.1	8.0	8.6
Que.	15.6	14.2	5.2	5.1	10.3	10.7
Ont.	18.6	17.4	7.5	7.7	13.0	13.1
Man.	19.1	16.5	7.9	7.1	13.4	13.3
Sask.	16.4	15.0	6.3	5.5	11.4	9.6
Alta.	16.4	14.3	8.0	5.8	12.2	11.0
B.C.	20.3	15.4	9.9	9.3	15.1	14.2
Yukon	32.5	22.7	8.9	8.3	21.3	15.7
N.W.T.	14.6	11.1	12.1	8.1	13.4	9.4
Canada	17.1	15.5	7.1	6.4	12.0	11.7

Note: See corresponding notes, Table M.1.

Sources: Statistics Canada, Causes of Death — Vital Statistics Volume IV, 1986 (Ottawa: Statistics Canada, Catalogue No. 84-203, 1988); Statistics Canada, Health Reports Supplement, Volume 1, No. 1, 1989 — Causes of Death, 1987 (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1989); Statistics Canada, Health Reports, Supplement No. 11, 1990, Volume 2, No. 1 — Causes of Death, 1988 (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1990); Statistics Canada, Health Reports Supplement No. 11, 1991, Volume 3, No. 1 — Causes of Death, 1989 (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1991).



TABLE M.3

## DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, RATES PER 100,000 POPULATION AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

MENTAL HEALTH:

Province	Alcoholic Psychoses												
	Male					Female							
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989	
Nfld.	-	-	1.1	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	0.7	1.0	-	-	-	-	0.3	-	-	-	-
N.B.	-	-	-	-	-	-	-	-	-	-	-	-	-
Que.	0.4	0.1	0.2	0.3	-	-	0.1	-	-	-	-	-	-
Ont.	0.5	0.5	0.4	0.5	0.1	0.1	0.1	0.1	-	-	0.1	0.1	0.2
Man.	0.8	0.8	1.1	0.3	-	0.8	-	-	-	-	0.4	0.5	0.1
Sask.	0.9	-	0.3	0.3	-	-	0.3	-	-	-	0.4	0.3	0.1
Alta.	0.5	0.5	0.4	0.2	0.2	-	0.1	-	-	-	0.4	0.2	0.1
B.C.	0.3	1.3	0.7	1.1	0.1	0.1	-	0.2	-	-	0.2	0.2	0.1
Yukon	12.0	-	-	-	-	-	-	-	-	-	6.3	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-	-
Canada	0.4	0.4	0.4	0.5	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2

Alcohol Dependence Syndrome

Province	Alcohol Dependence Syndrome												
	Male					Female							
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989	
Nfld.	1.7	2.2	-	0.5	0.5	-	-	-	-	-	-	-	0.3
P.E.I.	2.4	11.8	-	2.3	4.5	-	2.2	-	-	-	-	-	1.1
N.S.	3.0	5.0	4.3	5.2	0.6	1.6	0.9	0.6	0.6	1.8	3.2	2.5	2.8
N.B.	1.7	2.1	5.8	6.6	0.4	-	0.8	1.5	0.3	1.0	1.0	3.2	4.0
Que.	3.1	2.3	2.4	2.3	0.4	0.3	0.5	0.3	0.5	1.7	1.2	1.4	1.2
Ont.	4.1	4.3	4.2	4.0	1.0	1.1	1.0	1.4	1.4	2.5	2.6	2.6	2.7
Man.	6.3	3.8	6.0	2.7	1.8	1.8	2.0	2.8	0.3	4.0	2.8	3.9	2.8
Sask.	5.6	2.9	3.8	3.5	0.6	0.6	-	0.3	0.3	3.1	1.7	1.9	1.9
Alta.	5.7	6.6	4.3	4.3	2.8	1.0	1.2	1.2	1.2	4.2	3.8	2.7	2.7
B.C.	5.1	4.6	3.6	5.7	2.0	1.7	1.8	1.8	1.8	3.5	3.1	2.7	3.7
Yukon	24.1	11.6	22.5	-	13.3	25.6	12.5	25.0	25.0	19.0	17.8	11.8	11.8
N.W.T.	6.3	-	-	6.1	-	-	7.0	6.7	6.7	3.3	-	-	6.4
Canada	4.1	3.9	3.7	3.8	1.1	0.9	1.0	1.1	1.1	2.6	2.4	2.3	2.4



TABLE M.3 (Continued)

## DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, RATES PER 100,000 POPULATION AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

## MENTAL HEALTH (Cont'd):

Province	Nondependent Abuse of Alcohol											
	Male		Female		Total		Female		Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	1.1	0.6	2.2	1.1	0.5	-	-	-	0.8	0.3	1.1	0.5
P.E.I.	-	-	-	4.6	-	-	-	-	-	-	-	2.2
N.S.	2.4	1.3	2.6	2.0	-	0.3	0.9	0.6	1.1	0.8	1.7	1.3
N.B.	0.8	1.7	0.4	1.2	0.4	0.4	0.4	0.6	0.6	1.0	0.4	0.6
Que.	0.3	0.4	0.2	0.4	-	-	-	0.2	0.1	0.2	0.1	0.3
Ont.	1.0	0.6	0.7	1.0	0.4	0.3	0.2	0.3	0.7	0.4	0.4	0.6
Man.	0.3	-	0.8	1.1	-	-	0.3	0.3	0.1	-	0.5	0.7
Sask.	1.5	0.3	0.3	1.2	0.6	0.3	1.4	0.3	1.0	0.3	0.9	0.7
Alta.	1.5	1.2	1.2	1.6	0.6	0.2	0.1	0.4	1.0	0.7	0.7	1.0
B.C.	1.9	1.4	0.2	1.0	0.5	0.2	0.5	0.3	1.1	0.8	0.4	0.6
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	12.7	-	6.1	21.4	-	7.0	6.7	10.0	6.8	3.3	6.4
Canada	1.0	0.7	0.6	1.0	0.3	0.2	0.3	0.3	0.7	0.5	0.4	0.6

## DISEASES OF THE CIRCULATORY SYSTEM:

Province	Alcoholic Cardiomyopathy											
	Male		Female		Total		Female		Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	1.1	1.1	-	-	-	-	-	-	-	0.5
P.E.I.	-	4.7	-	-	-	-	-	-	-	-	-	-
N.S.	-	1.0	0.7	0.3	-	-	-	-	-	2.3	-	-
N.B.	0.8	0.4	2.1	0.4	-	-	-	-	-	0.5	0.3	0.2
Que.	0.6	0.3	0.1	0.4	0.1	-	-	-	0.4	0.2	1.0	0.2
Ont.	0.9	0.8	0.7	0.7	0.1	0.1	-	0.1	0.3	0.2	0.2	0.2
Man.	0.3	0.8	-	0.3	0.1	0.1	-	0.3	0.5	0.4	0.4	0.3
Sask.	0.6	0.9	0.6	0.3	-	0.3	-	0.3	0.1	0.4	-	0.3
Alta.	1.0	1.6	0.4	0.7	-	-	-	0.2	0.3	0.6	0.3	0.1
B.C.	2.6	2.3	2.5	2.5	0.8	0.6	0.9	0.5	0.5	1.7	1.4	1.5
Yukon	-	11.6	-	-	-	25.6	-	12.5	-	18.3	-	-
N.W.T.	-	-	6.3	-	-	-	-	-	-	-	-	-
Canada	0.9	0.9	0.7	0.8	0.2	0.1	0.1	0.1	0.5	0.5	0.4	0.4

TABLE M.3 (Continued)

DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, RATES PER 100,000 POPULATION AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

DISEASES OF THE DIGESTIVE SYSTEM:

Province	Alcoholic Gastritis							
	Male			Female				
	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	-	0.5	-	-	-	0.3
P.E.I.	-	-	-	-	-	-	-	-
N.S.	-	-	-	-	-	-	-	0.3
N.B.	0.4	-	-	0.4	-	-	0.2	-
Que.	-	-	0.1	0.1	-	-	-	0.1
Ont.	0.3	0.1	0.1	..	0.1	-	0.1	0.1
Man.	-	-	-	0.5	-	-	0.1	-
Sask.	-	-	0.3	0.6	0.3	-	-	0.3
Alta.	0.1	0.2	0.4	0.1	-	-	0.1	0.1
B.C.	-	0.2	0.2	-	0.1	0.1	..	0.1
Yukon	-	-	-	-	-	-	-	-
N.W.T.	-	-	6.3	-	-	-	-	-
Canada	0.1	0.1	0.1	0.1	..	..	0.1	0.1
							3.3	0.1

Alcohol-Related Chronic Liver Disease and Cirrhosis

Province	Alcohol-Related Chronic Liver Disease and Cirrhosis							
	Male			Female				
	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	4.5	3.9	2.7	3.2	1.1	1.6	1.1	0.5
P.E.I.	7.1	4.7	4.6	4.6	2.3	-	4.6	4.4
N.S.	5.7	6.3	7.2	7.2	0.9	0.6	3.3	3.8
N.B.	5.1	8.8	2.9	3.3	2.0	1.6	3.5	2.2
Que.	6.8	6.6	6.9	7.4	1.8	1.7	4.2	4.4
Ont.	10.3	9.4	9.1	10.2	2.9	3.3	6.5	6.6
Man.	10.2	5.5	6.5	7.3	3.9	2.8	6.9	5.6
Sask.	8.6	8.2	8.2	7.7	2.9	2.3	5.7	4.8
Alta.	9.1	7.5	8.5	9.3	4.1	4.3	6.6	6.1
B.C.	10.4	7.6	8.0	6.4	4.7	4.4	7.5	4.8
Yukon	12.0	-	-	-	-	-	6.3	-
N.W.T.	-	-	-	6.1	-	-	-	-
Canada	8.8	7.8	7.8	8.3	2.8	2.8	5.7	5.3
							5.0	3.2

TABLE M.3 (Continued)

DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, RATES PER 100,000 POPULATION AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

Province	DISEASES OF THE DIGESTIVE SYSTEM (Cont'd): Specified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol <sup>1</sup>											
	Male					Female						
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	0.6	0.6	0.5	-	1.6	1.1	0.5	0.5	1.1	0.8	0.5	0.3
P.E.I.	4.8	2.4	-	2.3	2.3	2.2	2.2	-	3.5	2.3	1.1	1.1
N.S.	0.7	0.3	0.7	-	0.9	0.9	0.9	0.9	0.8	0.6	0.8	0.5
N.B.	0.8	0.4	2.9	2.0	1.2	2.0	2.0	0.4	1.0	1.2	2.4	1.2
Que.	0.7	0.2	0.4	0.3	0.5	0.7	0.6	0.6	0.6	0.5	0.5	0.4
Ont.	0.4	0.3	0.5	0.4	0.9	0.8	1.0	1.1	0.7	0.6	0.7	0.7
Man.	0.8	0.5	0.3	0.5	1.8	1.0	1.0	0.8	1.3	0.8	0.7	0.7
Sask.	1.5	0.9	0.6	0.6	1.4	1.1	2.0	1.1	1.5	1.0	1.3	0.9
Alta.	0.4	0.4	0.2	0.4	0.9	0.6	1.3	0.6	0.6	0.5	0.8	0.5
B.C.	1.1	0.8	0.5	0.9	1.5	1.2	0.9	1.2	1.3	1.0	0.7	1.1
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	0.7	0.4	0.5	0.5	1.0	0.9	1.0	0.9	0.8	0.6	0.7	0.7

Province	Unspecified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol <sup>1</sup>											
	Male					Female						
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	6.1	4.4	7.1	7.0	3.3	1.6	2.1	2.6	4.7	3.0	4.6	4.7
P.E.I.	2.4	11.8	11.6	6.8	9.0	2.2	6.6	2.2	5.8	6.9	9.0	4.4
N.S.	6.4	6.0	4.9	4.9	3.5	2.2	2.5	2.8	4.9	4.0	3.7	3.8
N.B.	4.6	6.3	4.1	4.1	4.8	2.4	1.6	2.7	4.7	4.3	2.8	3.4
Que.	9.6	11.1	9.0	9.4	4.2	5.4	4.3	5.5	6.8	8.1	6.5	7.4
Ont.	8.0	7.4	7.9	8.8	4.5	4.4	3.8	3.9	6.2	5.8	5.8	6.2
Man.	8.3	6.5	7.3	8.4	3.4	2.8	5.9	6.9	5.7	4.6	6.6	7.6
Sask.	5.6	7.0	4.4	5.3	3.7	2.6	2.9	1.7	4.7	4.8	3.6	3.5
Alta.	3.7	3.4	4.1	3.3	2.1	2.7	1.6	1.9	2.9	3.1	2.8	2.6
B.C.	6.5	7.2	5.0	7.4	3.4	4.1	4.1	3.6	4.9	5.7	4.6	5.4
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	6.3	6.4	-	-	-	-	-	-	3.3	3.4	-	-
Canada	7.5	7.8	7.1	7.8	4.0	4.1	3.7	4.0	5.7	5.9	5.4	5.8



TABLE M.3 (Continued)

DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, RATES PER 100,000 POPULATION AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

**INJURY AND POISONING:**

Province	Toxic Effects of Alcohol (N) <sup>2</sup>											
	Male					Female						
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	0.6	1.1	0.5	-	0.5	-	-	-	-	0.5	0.3
P.E.I.	-	2.4	-	2.3	-	-	-	-	-	-	1.1	1.1
N.S.	1.0	1.3	1.0	0.7	0.3	-	-	-	-	-	0.7	0.5
N.B.	-	0.8	2.1	0.4	0.4	0.4	-	0.8	0.2	0.6	1.0	0.6
Que.	0.7	0.1	0.6	0.6	0.2	0.2	0.2	0.2	0.4	0.1	0.4	0.4
Ont.	0.8	1.0	0.8	0.9	0.3	0.4	0.3	0.2	0.5	0.7	0.5	0.5
Man.	0.8	3.0	1.9	0.8	-	0.8	1.5	1.0	0.4	1.9	1.7	0.9
Sask.	0.3	2.1	1.2	0.6	-	0.9	0.3	0.6	0.1	1.5	0.7	0.6
Alta.	2.2	1.2	1.6	1.4	0.9	0.5	0.5	0.4	1.5	0.9	1.0	0.9
B.C.	0.7	1.4	0.9	1.5	0.5	0.3	0.4	0.4	0.6	0.8	0.7	0.9
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	12.6	-	11.2	11.2	-	14.4	-	-	6.7	6.8	-	-
Canada	0.8	0.9	0.9	0.9	0.3	0.4	0.3	0.3	0.6	0.7	0.6	0.6

**Accidental Poisoning by Alcohol (E)<sup>2</sup>**

Province	Accidental Poisoning by Alcohol (E) <sup>2</sup>											
	Male					Female						
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	1.1	0.5	-	0.5	-	-	-	-	0.3	0.3
P.E.I.	-	2.4	-	2.3	-	-	-	-	-	-	1.1	1.1
N.S.	0.3	0.7	1.0	0.3	-	-	0.3	-	0.2	0.3	0.6	0.2
N.B.	-	0.8	1.2	-	0.4	-	-	0.4	0.2	0.4	0.6	0.2
Que.	0.1	-	0.5	0.6	-	-	-	0.1	0.1	-	0.2	0.3
Ont.	0.6	0.8	0.6	0.7	0.2	0.4	0.2	0.2	0.4	0.6	0.4	0.4
Man.	0.3	2.2	0.8	0.8	-	0.5	1.0	0.2	0.1	1.3	0.9	0.4
Sask.	0.3	1.8	0.6	0.3	-	0.6	0.3	0.6	0.1	1.2	0.4	0.4
Alta.	-	-	-	0.5	-	-	-	0.1	-	-	-	0.3
B.C.	0.7	1.2	0.9	1.4	0.4	0.2	0.4	0.4	0.5	0.7	0.6	0.9
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	11.2	-	7.2	-	-	-	3.4	-	5.9
Canada	0.4	0.7	0.6	0.7	0.1	0.2	0.2	0.2	0.2	0.4	0.4	0.4



TABLE M.3 (Concluded)

DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, RATES PER 100,000 POPULATION AGED 20 AND OVER, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

TOTAL ALL CAUSES:

Province	Total Alcohol-Related Problems <sup>3</sup>											
	Male						Female					
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	13.9	12.2	15.8	13.9	7.1	4.8	3.7	3.6	10.5	8.4	9.7	8.7
P.E.I.	16.6	37.6	16.2	22.8	18.1	4.5	10.9	6.5	17.4	20.6	13.5	14.4
N.S.	19.2	21.2	22.0	21.2	6.3	5.6	7.1	6.1	12.5	13.2	14.3	13.4
N.B.	14.3	20.5	20.3	18.4	9.2	6.7	5.9	6.5	11.7	13.4	12.9	12.3
Que.	22.0	21.1	19.8	21.3	7.1	8.3	6.9	8.4	14.3	14.5	13.1	14.6
Ont.	26.4	24.4	24.5	26.4	10.3	10.5	9.4	10.3	18.1	17.2	16.7	18.1
Man.	27.8	21.0	23.8	21.9	11.1	10.0	14.0	16.0	19.2	15.3	18.8	18.9
Sask.	24.5	22.3	19.7	20.1	9.2	8.0	8.6	6.0	16.8	15.1	14.1	12.9
Alta.	24.1	22.7	21.1	21.3	11.6	9.3	8.3	7.6	17.8	16.0	14.7	14.4
B.C.	28.5	26.8	21.6	26.5	13.5	12.6	12.2	11.2	20.8	19.5	16.8	18.7
Yukon	48.2	23.3	33.7	11.2	13.3	51.3	12.5	37.5	31.6	36.6	23.7	23.7
N.W.T.	25.2	19.1	12.7	18.4	21.4	14.4	14.1	13.4	23.4	16.9	13.3	16.0
Canada	24.4	23.0	22.0	23.5	9.8	9.6	8.9	9.4	16.9	16.1	15.2	16.2

Note: See corresponding notes, Table M.1.

Sources: Statistics Canada, *Causes of Death - Vital Statistics Volume IV 1986* (Ottawa: Statistics Canada, Catalogue No. 84-203, 1986); Statistics Canada, *Health Reports Supplement Volume 1, No. 1, 1989 - Causes of Death, 1987* (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1989); Statistics Canada, *Health Reports Supplement No. 11, 1990, Volume 2, No. 1 - Causes of Death, 1988* (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1990); Statistics Canada, *Health Reports Supplement No. 11, 1991, Volume 3, No. 1 - Causes of Death, 1989* (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1991).

TABLE M.4

## DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, BY AGE AND SEX, CANADA, 1986 TO 1989

MENTAL HEALTH:

Age	Alcoholic Psychoses									
	Male					Female				
	1986	1987	1988	1989	Total	1986	1987	1988	1989	Total
Under 20	-	-	-	-	-	1	-	-	-	-
20 - 24	-	-	-	-	-	-	-	-	-	-
25 - 34	1	-	-	-	-	1	-	-	-	-
35 - 44	3	1	2	2	8	4	2	1	3	10
45 - 54	3	4	6	4	17	1	1	2	4	8
55 - 59	4	3	3	4	14	-	-	-	-	-
60 - 64	4	6	10	6	26	2	2	1	3	8
65 - 69	8	8	7	4	27	-	2	1	1	4
70 - 74	7	3	5	6	21	1	2	1	1	5
75+	12	11	6	16	45	1	1	2	2	6
Unstated	-	-	-	-	-	-	-	-	-	-
Total	38	39	37	42	156	5	10	8	8	31

Age	Alcohol Dependence Syndrome									
	Male					Female				
	1986	1987	1988	1989	Total	1986	1987	1988	1989	Total
Under 20	-	-	-	-	-	-	-	-	-	-
20 - 24	-	-	-	2	2	-	-	2	-	2
25 - 34	11	9	8	9	37	6	1	5	8	20
35 - 44	41	30	44	27	142	15	8	12	12	47
45 - 54	73	65	63	61	262	20	16	13	16	65
55 - 59	47	54	37	49	187	11	6	10	15	42
60 - 64	63	52	50	54	219	23	20	14	16	73
65 - 69	49	61	59	66	235	15	15	21	17	68
70 - 74	31	38	35	41	145	7	9	9	10	35
75+	45	37	36	35	153	8	11	7	14	40
Unstated	-	-	-	-	-	-	-	-	-	-
Total	360	347	332	344	1383	105	86	93	108	492

TABLE M.4 (Continued)

DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, BY AGE AND SEX, CANADA, 1986 TO 1989

MENTAL HEALTH (Cont'd):

Age	Nondependent Abuse of Alcohol					
	Male		Female		Total	
	1986	1987	1988	1989	1986	1987
Under 20	4	2	2	2	1	3
20 - 24	4	2	2	4	4	2
25 - 34	8	12	9	13	2	2
35 - 44	20	17	9	17	8	13
45 - 54	18	6	9	20	5	10
55 - 59	12	8	6	12	6	17
60 - 64	8	3	9	6	3	23
65 - 69	8	11	6	9	3	9
70 - 74	3	2	1	4	1	8
75+	2	3	3	3	1	12
Unstated	-	-	-	-	-	2
Total	87	66	56	90	32	83

DISEASES OF THE CIRCULATORY SYSTEM:

Age	Alcoholic Cardiomyopathy					
	Male		Female		Total	
	1986	1987	1988	1989	1986	1987
Under 20	-	-	-	-	-	-
20 - 24	-	-	-	2	-	-
25 - 34	2	-	-	2	1	3
35 - 44	6	6	9	7	2	8
45 - 54	10	12	12	16	3	15
55 - 59	16	16	9	7	-	16
60 - 64	14	17	8	11	5	19
65 - 69	17	18	10	15	2	21
70 - 74	11	8	11	8	1	9
75+	7	6	8	5	3	7
Unstated	-	-	-	-	-	-
Total	83	83	67	71	16	96



TABLE M.4 (Continued)

DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, BY AGE AND SEX, CANADA, 1986 TO 1989

DISEASES OF THE DIGESTIVE SYSTEM:

Age	Alcoholic Gastritis											
	Male		Female		Total		Male		Female		Total	
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Under 20	-	-	-	-	-	-	-	-	-	-	-	-
20 - 24	-	-	-	-	-	-	-	-	-	-	-	-
25 - 34	-	-	-	-	-	-	-	-	-	-	-	-
35 - 44	-	2	3	3	-	-	-	-	-	2	3	3
45 - 54	2	1	2	2	-	-	-	-	-	1	2	2
55 - 59	1	2	-	-	-	1	1	2	-	3	1	2
60 - 64	3	1	4	1	-	-	1	-	-	3	1	5
65 - 69	3	1	1	2	-	-	-	-	-	3	1	1
70 - 74	-	1	1	1	2	-	1	1	1	2	1	2
75+	1	-	1	1	-	-	1	2	-	1	-	3
Unstated	-	-	-	-	-	-	-	-	-	-	-	-
Total	10	8	12	10	2	1	4	5	12	9	16	15

Alcohol-Related Chronic Liver Disease and Cirrhosis

Age	Alcohol-Related Chronic Liver Disease and Cirrhosis											
	Male		Female		Total		Male		Female		Total	
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Under 20	-	-	-	-	-	-	-	-	-	-	-	-
20 - 24	2	7	11	12	9	12	5	7	2	34	16	19
25 - 34	25	74	69	68	30	42	26	22	90	116	95	90
35 - 44	60	140	149	162	65	55	51	58	213	195	200	220
45 - 54	139	123	110	134	35	43	37	43	174	166	147	177
55 - 59	132	121	131	106	52	44	37	40	184	165	168	146
60 - 64	122	111	131	159	32	33	28	40	154	144	159	199
65 - 69	77	64	62	61	23	23	26	21	100	87	88	82
70 - 74	62	53	41	54	16	16	23	17	78	69	64	71
75+	-	-	-	-	-	-	-	-	-	-	-	-
Unstated	-	-	-	-	-	-	-	-	-	-	-	-
Total	767	693	704	756	262	268	233	248	1,029	961	937	1,004



TABLE M.4 (Continued)

DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, BY AGE AND SEX, CANADA, 1986 TO 1989

DISEASES OF THE DIGESTIVE SYSTEM:

Specified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol<sup>1</sup>

Age	Male		Female		Total			
	1986	1987	1988	1989	1986	1987	1988	1989
Under 20	2	-	-	1	2	4	-	-
20 - 24	2	-	-	-	1	3	1	-
25 - 34	-	1	3	2	1	1	2	4
35 - 44	6	3	1	3	5	11	6	9
45 - 54	7	6	7	7	6	13	10	16
55 - 59	6	7	11	3	10	16	19	9
60 - 64	10	2	7	3	16	11	13	14
65 - 69	6	6	5	5	10	16	19	18
70 - 74	9	4	3	7	10	16	20	27
75+	10	5	8	14	28	38	34	30
Unstated	-	-	-	-	-	-	-	-
Total	58	34	45	44	89	82	136	127

Unspecified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol<sup>1</sup>

Age	Male		Female		Total			
	1986	1987	1988	1989	1986	1987	1988	1989
Under 20	1	3	2	-	1	2	2	1
20 - 24	-	-	2	-	-	-	3	-
25 - 34	2	9	5	4	4	6	9	6
35 - 44	36	26	40	49	14	50	49	58
45 - 54	104	90	91	88	33	137	113	122
55 - 59	111	114	79	79	34	145	118	106
60 - 64	115	134	110	114	66	181	186	150
65 - 69	96	101	113	135	52	148	178	216
70 - 74	81	89	84	100	58	139	137	174
75+	113	125	117	143	106	219	228	269
Unstated	-	-	-	-	-	-	-	-
Total	659	691	643	712	368	1,027	994	1,102

TABLE M.4 (Continued)

DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, BY AGE AND SEX, CANADA, 1986 TO 1989

INJURY AND POISONING:

Age	Toxic Effects of Alcohol (N) <sup>2</sup>											
	Male					Female					Total	
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987		1988
Under 20	-	-	1	3	2	-	1	2	2	-	-	5
20 - 24	5	3	5	4	4	-	3	-	5	4	5	4
25 - 34	9	10	10	13	4	2	3	4	13	12	13	17
35 - 44	17	25	19	16	4	8	6	6	21	33	25	22
45 - 54	18	20	21	19	11	12	8	6	29	32	29	25
55 - 59	10	8	9	14	1	5	4	1	11	13	13	15
60 - 64	7	10	9	8	2	3	2	4	9	13	11	12
65 - 69	4	3	5	6	2	4	2	3	6	7	7	9
70 - 74	3	3	4	1	1	1	4	1	4	4	8	2
75+	-	-	2	-	-	-	1	1	-	2	3	1
Unstated	-	-	-	-	-	-	-	-	-	-	-	-
Total	73	84	85	84	27	36	31	28	100	120	116	112

Accidental Poisoning by Alcohol (E)<sup>2</sup>

Age	Accidental Poisoning by Alcohol (E) <sup>2</sup>											
	Male					Female					Total	
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987		1988
Under 20	-	-	1	2	1	-	-	-	1	-	-	2
20 - 24	2	3	2	4	1	1	1	1	2	4	2	4
25 - 34	1	7	3	11	1	2	1	1	2	9	4	12
35 - 44	10	16	10	12	1	4	3	4	11	20	13	16
45 - 54	7	13	17	16	8	4	5	5	15	17	22	21
55 - 59	5	5	6	11	1	4	3	1	6	9	9	12
60 - 64	3	8	8	5	-	3	2	3	3	11	10	8
65 - 69	3	3	4	4	-	4	1	2	3	7	5	6
70 - 74	2	2	2	1	-	-	3	1	2	2	5	2
75+	-	2	1	-	-	-	1	1	-	2	2	1
Unstated	-	-	-	-	-	-	-	-	-	-	-	-
Total	33	59	54	66	12	22	19	18	45	81	73	84

**TABLE M.4 (Concluded)**

**DEATHS FROM DIRECT ALCOHOL—RELATED PROBLEMS, BY AGE AND SEX, CANADA, 1986 TO 1989**

Age	Total Alcohol—Related Problems <sup>3</sup>											
	Male						Female					
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Under 20	7	6	5	5	6	3	3	4	13	9	8	9
20—24	13	5	9	10	5	2	4	—	18	7	13	10
25—34	58	48	46	55	27	21	18	28	85	69	64	83
35—44	186	184	194	192	78	82	63	62	264	266	257	254
45—54	383	346	360	379	144	129	106	134	527	475	466	513
55—59	345	336	264	302	97	98	101	97	442	434	365	399
60—64	356	346	338	309	167	138	124	115	523	484	462	424
65—69	313	320	337	401	116	141	143	158	429	461	480	559
70—74	222	212	206	229	104	121	110	133	326	333	316	362
75+	252	242	222	271	162	166	174	178	414	408	396	449
Unstated	—	—	—	—	—	—	1	—	—	—	1	—
<b>Total</b>	<b>2,135</b>	<b>2,045</b>	<b>1,981</b>	<b>2,153</b>	<b>906</b>	<b>901</b>	<b>847</b>	<b>909</b>	<b>3,041</b>	<b>2,946</b>	<b>2,828</b>	<b>3,062</b>

Note: See corresponding notes, Table M.1.

Sources: Statistics Canada, Causes of Death—Vital Statistics Volume IV, 1986 (Ottawa: Statistics Canada, Catalogue No. 84—203, 1986); Statistics Canada, Health Reports Supplement, Volume 1, No. 1, 1989—Causes of Death, 1987 (Ottawa: Statistics Canada, Catalogue No. 82—003S, 1989); Statistics Canada, Health Reports, Supplement No. 11, 1990, Volume 2, No. 1—Causes of Death, 1988 (Ottawa: Statistics Canada, Catalogue No. 82—003S, 1990); Statistics Canada, Health Reports Supplement No. 11, 1991, Volume 3, No. 1—Causes of Death, 1989 (Ottawa: Statistics Canada, Catalogue No. 82—003S, 1991).



TABLE M.5

DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, RATES PER 100,000 POPULATION, BY AGE AND SEX, CANADA, 1986 TO 1989

## MENTAL HEALTH:

Age	Alcoholic Psychoses											
	Male			Female			Total			Total		
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Under 20	-	-	-	-	-	-	-	-	-	-	-	-
20 - 24	-	-	-	-	-	-	-	-	-	-	-	-
25 - 34	-	-	-	-	-	-	-	-	-	-	-	-
35 - 44	..	0.1	-	0.1	0.1	0.1	0.1	0.1	..	0.1	..	..
45 - 54	0.2	0.5	0.5	0.3	0.1	-	-	0.1	0.2	0.3	0.3	0.2
55 - 59	0.5	0.7	0.5	0.7	-	-	-	0.2	0.2	0.3	0.2	0.4
60 - 64	0.8	1.1	1.8	1.1	-	0.3	0.2	0.5	0.4	0.7	1.0	0.8
65 - 69	1.9	1.8	1.6	0.9	-	0.4	0.2	0.2	0.9	1.0	0.8	0.5
70 - 74	2.2	0.9	1.5	1.8	0.2	0.5	0.2	-	1.1	0.7	0.8	0.8
75+	3.0	2.7	1.4	3.6	0.2	0.1	0.3	0.3	1.2	1.1	0.7	1.5
Unstated	-	-	-	-	-	-	-	-	-	-	-	-
Total	0.3	0.3	0.3	0.3	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2

Age	Alcohol Dependence Syndrome											
	Male			Female			Total			Total		
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Under 20	-	-	-	0.2	-	-	0.2	-	-	-	-	-
20 - 24	-	-	-	0.4	0.3	0.0	0.2	0.3	0.4	0.2	0.3	0.4
25 - 34	0.5	0.4	0.3	0.4	0.8	0.4	0.6	0.6	1.5	1.0	1.4	1.0
35 - 44	2.2	1.6	2.3	1.4	1.6	1.2	1.0	1.2	3.6	3.1	2.9	2.8
45 - 54	5.7	5.0	4.7	4.5	1.8	1.0	1.6	2.4	4.8	5.0	3.9	5.3
55 - 59	7.9	9.0	6.1	8.1	3.9	3.4	2.3	2.7	7.6	6.4	5.6	6.1
60 - 64	11.9	9.7	9.2	9.9	3.0	2.9	3.9	3.0	7.0	8.0	8.1	8.1
65 - 69	11.8	14.1	13.1	14.1	1.7	2.1	2.1	2.3	5.1	6.3	5.8	6.7
70 - 74	9.5	11.6	10.6	12.4	1.2	1.6	1.0	1.9	5.1	4.4	3.8	4.1
75+	11.4	9.1	8.5	7.9	-	-	-	-	-	-	-	-
Unstated	-	-	-	-	-	-	-	-	-	-	-	-
Total	2.9	2.7	2.6	2.7	0.8	0.7	0.7	0.8	1.8	1.7	1.6	1.7



TABLE M.5 (Continued)

DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, RATES PER 100,000 POPULATION, BY AGE AND SEX, CANADA, 1986 TO 1989

MENTAL HEALTH (Cont'd): Nondependent Abuse of Alcohol

Age	Male		Female		Total			
	1986	1987	1988	1989	1986	1987	1988	1989
Under 20	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
20 - 24	0.4	0.2	0.4	0.4	0.4	0.4	0.1	0.2
25 - 34	0.4	0.5	0.4	0.6	0.1	0.2	0.2	0.4
35 - 44	1.1	0.9	0.5	0.9	0.4	0.2	0.1	0.3
45 - 54	1.4	0.5	0.7	1.5	0.4	0.2	0.5	0.6
55 - 59	2.0	1.3	1.0	2.0	1.0	0.5	0.2	1.1
60 - 64	1.5	0.6	1.7	1.1	0.5	0.5	0.3	0.7
65 - 69	1.9	2.5	1.3	1.9	0.6	1.2	1.1	1.1
70 - 74	0.9	0.6	0.3	1.2	0.2	0.2	0.7	0.9
75+	0.5	0.7	0.7	0.7	0.1	0.1	0.4	0.3
Unstated	-	-	-	-	-	-	-	-
Total	0.7	0.5	0.4	0.7	0.2	0.1	0.2	0.2

DISEASES OF THE CIRCULATORY SYSTEM:

Alcoholic Cardiomyopathy

Age	Male		Female		Total			
	1986	1987	1988	1989	1986	1987	1988	1989
Under 20	-	-	-	-	-	-	-	-
20 - 24	-	-	-	-	-	-	-	-
25 - 34	0.1	-	0.5	0.4	0.1	0.1	0.1	0.1
35 - 44	0.3	0.3	0.9	1.2	0.2	0.2	0.3	0.2
45 - 54	0.8	0.9	1.5	1.2	0.2	0.2	0.2	0.7
55 - 59	2.7	2.7	1.5	2.0	0.8	0.5	0.7	1.2
60 - 64	2.6	3.2	1.5	2.0	0.4	0.6	0.4	1.2
65 - 69	4.1	4.2	2.2	3.2	0.2	0.2	0.2	1.6
70 - 74	3.4	2.4	3.3	2.4	0.2	0.2	0.7	1.5
75+	1.8	1.5	1.9	1.1	0.5	0.1	-	0.4
Unstated	-	-	-	-	-	-	-	-
Total	0.7	0.7	0.5	0.5	0.1	0.1	0.1	0.1

TABLE M.5 (Continued)

## DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, RATES PER 100,000 POPULATION, BY AGE AND SEX, CANADA, 1986 TO 1989

## DISEASES OF THE DIGESTIVE SYSTEM:

Age	Alcoholic Gastritis												
	Male			Female									
	1986	1987	1988	1986	1987	1988	1986	1987	1988	1989			
Under 20	-	-	-	-	-	-	-	-	-	-	-	-	-
20 - 24	-	-	-	-	-	-	-	-	-	-	-	-	-
25 - 34	-	-	-	-	-	-	-	-	-	-	-	-	-
35 - 44	-	-	-	-	-	-	-	-	-	-	-	-	-
45 - 54	-	0.1	0.2	0.2	-	-	-	-	-	-	-	0.1	0.1
55 - 59	0.2	0.1	0.2	0.1	-	-	-	-	-	-	-	0.1	0.1
60 - 64	0.2	0.3	-	-	0.2	0.2	0.3	0.1	0.2	0.1	0.1	0.2	0.2
65 - 69	0.6	0.2	0.7	0.2	-	-	-	-	-	-	-	0.3	0.1
70 - 74	0.7	0.2	0.2	0.4	-	-	-	-	-	-	-	0.1	0.1
75+	-	0.3	0.3	0.3	0.5	0.2	0.2	0.3	0.1	0.3	0.3	0.1	0.3
Unstated	0.3	-	0.2	0.2	-	-	-	-	-	-	-	-	0.2
Total	0.1	0.1	0.1	0.1	-	-	-	-	-	-	-	-	0.1

Age	Alcohol-Related Chronic Liver Disease and Cirrhosis												
	Male			Female									
	1986	1987	1988	1986	1987	1988	1986	1987	1988	1989			
Under 20	-	-	-	-	-	-	-	-	-	-	-	-	-
20 - 24	0.2	-	-	-	-	-	-	-	-	-	-	-	-
25 - 34	1.1	0.3	0.5	0.4	0.5	0.2	0.3	0.7	0.4	0.3	0.4	0.3	0.4
35 - 44	3.3	3.9	3.6	1.6	2.2	1.3	1.1	2.5	3.1	2.4	2.2	2.4	2.2
45 - 54	11.6	10.8	11.2	5.1	4.3	3.8	4.2	8.4	7.5	7.5	8.0	7.5	8.0
55 - 59	23.4	20.5	18.2	5.7	7.0	6.0	7.0	14.4	13.7	12.1	14.6	13.7	14.6
60 - 64	24.9	22.6	24.2	8.7	7.4	6.2	6.7	16.3	14.6	14.8	12.8	14.6	12.8
65 - 69	29.4	25.6	29.1	6.4	6.4	5.2	7.2	16.9	15.1	16.1	19.4	15.1	19.4
70 - 74	23.7	19.5	18.8	5.6	5.4	6.1	4.9	13.5	11.6	11.7	10.8	11.6	10.8
75+	15.7	13.0	9.6	2.4	2.4	3.2	2.3	7.4	6.3	5.6	6.0	6.3	6.0
Unstated	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	6.1	5.5	5.5	2.0	2.1	1.8	1.9	4.1	3.8	3.6	3.8	3.6	3.8

TABLE M.5 (Continued)

DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS, RATES PER 100,000 POPULATION, BY AGE AND SEX, CANADA, 1986 TO 1989

DISEASES OF THE DIGESTIVE SYSTEM (Cont'd):

Age	Male		Female		Total			
	1986	1987	1988	1989	1986	1987	1988	1989
Under 20	0.1	-	-	-	0.1	-	-	-
20 - 24	0.2	-	-	0.1	0.1	0.1	0.1	0.1
25 - 34	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1
35 - 44	0.3	0.2	0.1	0.2	0.3	0.3	0.2	0.2
45 - 54	0.5	0.5	0.5	0.5	0.5	0.7	0.4	0.6
55 - 59	1.0	1.2	1.8	0.5	1.6	2.0	1.6	0.7
60 - 64	1.9	0.4	1.3	0.5	2.7	1.9	1.8	1.2
65 - 69	1.4	1.4	1.1	1.1	2.0	2.5	2.3	1.8
70 - 74	2.8	1.2	0.9	2.1	2.4	3.8	4.7	3.6
75+	2.5	1.2	1.9	3.1	4.3	3.1	2.2	2.5
Unstated	-	-	-	-	-	-	-	-
Total	0.5	0.3	0.4	0.3	0.7	0.6	0.7	0.6

Age	Male		Female		Total			
	1986	1987	1988	1989	1986	1987	1988	1989
Under 20	0.1	0.1	0.1	-	0.1	0.1	0.1	0.1
20 - 24	-	0.2	0.2	0.2	0.2	0.2	0.1	0.1
25 - 34	0.1	0.4	2.1	2.5	0.8	0.7	0.5	0.4
35 - 44	2.0	1.4	2.1	6.4	2.6	2.7	1.7	2.5
45 - 54	8.1	6.9	6.9	13.1	5.6	5.1	6.4	4.4
55 - 59	18.7	19.0	13.1	20.8	11.1	8.8	7.7	6.1
60 - 64	21.7	25.1	20.3	28.9	10.5	12.5	12.0	14.5
65 - 69	23.1	27.1	25.5	30.3	14.0	16.3	12.4	17.3
70 - 74	24.9	30.6	27.5	32.2	16.2	16.9	15.7	17.0
75+	28.6	-	-	-	-	-	-	-
Unstated	-	-	-	-	-	-	-	-
Total	5.3	5.5	5.0	5.5	2.9	3.0	2.7	2.9



TABLE M.5 (Continued)

AGE- AND SEX-SPECIFIC DEATH RATES FROM DIRECT ALCOHOL-RELATED PROBLEMS PER 100,000 POPULATION, CANADA AND PROVINCES, 1986 TO 1989

INJURY AND POISONING:

Age	Toxic Effects of Alcohol (N) <sup>2</sup>										
	Male					Female					
	1986	1987	1988	1989		1986	1987	1988	1989	Total	
Under 20	-	-	-	0.1	0.1	0.1	-	..	-	-	0.1
20 - 24	0.4	0.3	0.5	0.4	-	-	0.1	-	-	-	0.2
25 - 34	0.4	0.4	0.4	0.6	0.2	0.1	0.1	0.2	0.2	0.3	0.2
35 - 44	0.9	1.3	1.0	0.8	0.2	0.4	0.3	0.3	0.3	0.6	0.3
45 - 54	1.4	1.5	1.6	1.4	0.9	0.9	0.6	0.4	1.1	1.2	0.6
55 - 59	1.7	1.3	1.5	2.3	0.2	0.8	0.7	0.2	0.9	1.1	1.1
60 - 64	1.3	1.9	1.7	1.5	0.3	0.5	0.3	0.7	0.8	1.2	1.2
65 - 69	1.0	0.7	1.1	1.3	0.4	0.8	0.4	0.5	0.7	0.7	1.1
70 - 74	0.9	0.9	1.2	0.3	0.2	0.2	0.9	0.2	0.5	0.5	0.9
75+	-	0.5	0.5	-	-	-	0.1	0.1	-	0.2	0.3
Unstated	-	-	-	-	-	-	-	-	-	-	-
Total	0.6	0.7	0.7	0.6	0.2	0.3	0.2	0.2	0.4	0.5	0.4

Accidental Poisoning by Alcohol (E)<sup>2</sup>

Age	Accidental Poisoning by Alcohol (E) <sup>2</sup>										
	Male					Female					
	1986	1987	1988	1989		1986	1987	1988	1989	Total	
Under 20	-	-	..	0.1	..	..	-	-	-	-	..
20 - 24	0.2	0.3	0.2	0.4	-	-	0.1	-	-	0.2	0.2
25 - 34	..	0.3	0.1	0.5	..	..	0.1	..	..	0.2	0.1
35 - 44	0.5	0.8	0.5	0.6	0.1	0.2	0.2	0.2	0.2	0.3	0.3
45 - 54	0.5	1.0	1.3	1.2	0.6	0.3	0.4	0.4	0.6	0.7	0.4
55 - 59	0.8	0.8	1.0	1.8	0.2	0.7	0.5	0.2	0.5	0.7	0.8
60 - 64	0.6	1.5	1.5	0.9	-	0.5	0.3	0.5	0.3	1.0	1.0
65 - 69	0.7	0.7	0.9	0.9	-	0.8	0.2	0.4	0.3	0.7	0.7
70 - 74	0.6	0.6	0.6	0.3	-	-	0.7	0.2	0.3	0.3	0.5
75+	-	0.5	0.2	-	-	-	0.1	0.1	-	0.2	0.2
Unstated	-	-	-	-	-	-	-	-	-	-	-
Total	0.3	0.5	0.4	0.5	0.1	0.2	0.1	0.1	0.2	0.3	0.3



TABLE M.5 (Concluded)

AGE- AND SEX-SPECIFIC DEATH RATES FROM DIRECT ALCOHOL-RELATED PROBLEMS PER 100,000 POPULATION, CANADA AND PROVINCES, 1986 TO 1989

TOTAL: Total Alcohol-Related Problems<sup>3</sup>

Age	Male						Female						Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Under 20	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1
20 - 24	1.1	0.5	0.8	1.0	0.4	0.2	0.4	-	0.8	0.3	0.6	0.5	0.8	0.3	0.6	0.5
25 - 34	2.6	2.1	2.0	2.3	1.2	0.9	0.8	1.2	1.9	1.5	1.4	1.8	1.9	1.5	1.4	1.8
35 - 44	10.2	9.8	10.0	9.6	4.3	4.4	3.2	3.1	7.2	7.1	6.6	6.3	7.2	7.1	6.6	6.3
45 - 54	30.0	26.7	27.1	27.7	11.3	10.0	8.0	9.8	20.7	18.4	17.6	18.8	20.7	18.4	17.6	18.8
55 - 59	58.1	56.0	43.8	50.2	15.9	16.0	16.5	15.8	36.7	35.8	30.0	32.9	36.7	35.8	30.0	32.9
60 - 64	67.1	64.7	62.3	56.5	28.1	23.2	20.8	19.3	46.4	42.9	40.6	37.1	46.4	42.9	40.6	37.1
65 - 69	75.4	73.8	74.8	85.8	23.3	27.1	26.5	28.2	47.0	48.4	48.5	54.4	47.0	48.4	48.5	54.4
70 - 74	68.4	64.5	62.6	69.5	25.1	28.6	25.8	31.0	44.1	44.3	41.8	47.7	44.1	44.3	41.8	47.7
75+	63.8	59.2	52.2	61.0	24.8	24.4	24.6	24.0	39.5	37.5	34.9	37.9	39.5	37.5	34.9	37.9
Unstated	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	17.1	16.2	15.5	16.7	7.1	6.9	6.4	6.8	12.0	11.5	10.9	11.7	12.0	11.5	10.9	11.7

Note: See corresponding notes, Table M.1.

Sources: Statistics Canada, Causes of Death - Vital Statistics Volume IV 1986 (Ottawa: Statistics Canada, Catalogue No. 84-203, 1989); Statistics Canada, Health Reports Supplement, Volume 1, No. 1, 1989 - Causes of Death, 1987 (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1989); Statistics Canada, Health Reports, Supplement No. 11, 1990, Volume 2, No. 1 - Causes of Death, 1988 (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1990); Statistics Canada, Health Reports Supplement No. 11, 1991, Volume 3, No. 1 - Causes of Death, 1989 (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1991).

**TABLE M.6**

**PERCENTAGE OF DEATHS FROM DIRECT ALCOHOL-RELATED PROBLEMS<sup>1</sup> RELATIVE TO TOTAL DEATHS FOR ALL DIAGNOSTIC CATEGORIES, CANADA AND PROVINCES, 1986 TO 1989**

Province	1986	1987	1988	1989
Nfld.	1.1	0.9	1.0	0.9
P.E.I.	1.3	1.6	1.1	1.2
N.S.	1.1	1.2	1.2	1.1
N.B.	1.0	1.2	1.2	1.1
Que.	1.4	1.5	1.3	1.5
Ont.	1.7	1.7	1.6	1.8
Man.	1.6	1.3	1.6	1.6
Sask.	1.4	1.3	1.2	1.1
Alta.	2.1	2.0	1.7	1.7
B.C.	2.1	1.9	1.6	1.8
Yukon	4.4	5.6	2.9	4.2
N.W.T.	3.0	2.5	1.8	2.0
<b>Canada</b>	<b>1.7</b>	<b>1.6</b>	<b>1.5</b>	<b>1.6</b>

<sup>1</sup> Includes deaths attributable to alcoholic psychoses, alcohol dependence syndrome, nondependent abuse of alcohol, alcoholic cardiomyopathy, alcoholic gastritis, chronic liver disease and cirrhosis and toxic effects of alcohol.

Sources: Statistics Canada, Causes of Death – Vital Statistics Volume IV 1986 (Ottawa: Statistics Canada, Catalogue No. 84–203, 1988); Statistics Canada, Health Reports Supplement, Volume 1, No. 1, 1989 – Causes of Death, 1987 (Ottawa: Statistics Canada, Catalogue No. 82–003S, 1989); Statistics Canada, Health Reports, Supplement No. 11, 1990, Volume 2, No. 1 – Causes of Death, 1988 (Ottawa: Statistics Canada, Catalogue No. 82–003S, 1990); Statistics Canada, Health Reports Supplement No. 11, 1991, Volume 3, No. 1 – Causes of Death, 1989 (Ottawa: Statistics Canada, Catalogue No. 82–003S, 1991).

TABLE M.7

ESTIMATED<sup>1</sup> DEATHS INDIRECTLY<sup>2</sup> DUE TO ALCOHOL,  
CANADA AND PROVINCES, 1985 TO 1989

Province	Neoplasms				
	1985	1986	1987	1988	1989
Nfld.	80	85	90	85	95
P.E.I.	30	30	25	25	25
N.S.	185	190	185	200	200
N.B.	130	135	140	145	140
Que.	1,235	1,300	1,335	1,380	1,395
Ont.	1,740	1,755	1,820	1,905	1,930
Man.	215	225	225	235	230
Sask.	195	190	195	200	185
Alta.	315	325	330	350	355
B.C.	540	560	565	600	630
Yukon	-	-	-	5	-
N.W.T.	5	5	5	5	5
Canada	4,680	4,800	4,920	5,130	5,200

Province	Diseases of the Circulatory System				
	1985	1986	1987	1988	1989
Nfld.	85	85	85	80	80
P.E.I.	25	30	25	25	25
N.S.	160	160	155	155	155
N.B.	115	120	120	115	120
Que.	970	980	965	970	950
Ont.	1,510	1,510	1,470	1,505	1,480
Man.	190	190	180	180	180
Sask.	175	170	165	175	175
Alta.	250	270	265	270	270
B.C.	440	440	450	445	445
Yukon	-	-	-	-	-
N.W.T.	-	-	-	-	-
Canada	3,925	3,965	3,890	3,920	3,885

Province	Diseases of the Respiratory System				
	1985	1986	1987	1988	1989
Nfld.	40	40	35	40	40
P.E.I.	15	15	15	15	15
N.S.	95	100	90	110	110
N.B.	65	70	55	60	70
Que.	495	540	530	565	590
Ont.	720	795	770	865	855
Man.	115	120	110	115	115
Sask.	110	125	100	120	115
Alta.	165	165	160	180	185
B.C.	290	270	290	315	320
Yukon	-	-	-	-	-
N.W.T.	-	5	5	5	5
Canada	2,110	2,240	2,165	2,395	2,425

TABLE M.7 (Continued)

ESTIMATED<sup>1</sup> DEATHS INDIRECTLY<sup>2</sup> DUE TO ALCOHOL,  
CANADA AND PROVINCES, 1985 TO 1989

Province	Motor Vehicle Accidents				
	1985	1986	1987	1988	1989
Nfld.	35	30	30	35	40
P.E.I.	15	15	10	10	10
N.S.	80	70	80	75	70
N.B.	65	65	70	75	75
Que.	595	460	515	500	535
Ont.	615	535	590	595	630
Man.	75	85	80	75	80
Sask.	100	115	115	95	100
Alta.	200	255	250	215	235
B.C.	210	275	285	255	245
Yukon	5	5	5	5	—
N.W.T.	10	5	5	5	5
Canada	2,000	1,915	2,035	1,940	2,030

Province	Accidental Falls				
	1985	1986	1987	1988	1989
Nfld.	10	5	10	15	10
P.E.I.	5	5	5	10	5
N.S.	25	25	25	30	30
N.B.	20	20	20	20	20
Que.	145	170	145	165	160
Ont.	300	335	320	360	340
Man.	30	40	35	35	35
Sask.	35	40	35	45	40
Alta.	50	65	55	65	55
B.C.	110	105	120	100	105
Yukon	—	—	—	—	—
N.W.T.	—	—	—	—	—
Canada	730	805	765	840	800

Province	Accidents Caused by Fire and Flames				
	1985	1986	1987	1988	1989
Nfld.	5	5	5	5	5
P.E.I.	—	5	—	—	—
N.S.	5	5	5	10	10
N.B.	5	10	10	5	5
Que.	40	40	30	30	25
Ont.	50	40	40	30	45
Man.	10	10	5	10	5
Sask.	5	5	10	5	5
Alta.	10	10	10	10	10
B.C.	10	20	10	15	15
Yukon	—	—	—	—	—
N.W.T.	—	—	—	—	—
Canada	145	145	130	120	125



TABLE M.7 (Continued)

ESTIMATED<sup>1</sup> DEATHS INDIRECTLY<sup>2</sup> DUE TO ALCOHOL,  
CANADA AND PROVINCES, 1985 TO 1989

Accidental Drowning and Submersion					
Province	1985	1986	1987	1988	1989
Nfld.	10	5	5	5	5
P.E.I.	—	—	—	—	—
N.S.	5	—	5	5	5
N.B.	5	5	5	5	5
Que.	40	25	25	30	25
Ont.	35	30	40	40	30
Man.	5	5	10	5	10
Sask.	5	5	10	10	5
Alta.	5	10	10	5	10
B.C.	15	20	20	15	20
Yukon	—	—	—	—	—
N.W.T.	—	—	—	—	—
Canada	125	110	125	120	115

Suicide and Self-inflicted Injury					
Province	1985	1986	1987	1988	1989
Nfld.	5	5	10	15	10
P.E.I.	—	5	5	5	5
N.S.	30	30	35	30	30
N.B.	25	30	25	30	25
Que.	335	345	355	325	315
Ont.	310	340	320	315	345
Man.	40	45	50	45	45
Sask.	40	40	40	45	35
Alta.	90	125	115	120	110
B.C.	90	130	125	115	125
Yukon	—	5	—	—	—
N.W.T.	5	5	5	5	10
Canada	980	1,100	1,080	1,055	1,050

Homicide					
Province	1985	1986	1987	1988	1989
Nfld.	—	—	5	5	—
P.E.I.	—	—	—	—	—
N.S.	15	10	10	10	10
N.B.	10	10	10	5	10
Que.	90	80	80	65	110
Ont.	105	75	110	100	90
Man.	15	25	25	15	20
Sask.	15	15	15	15	15
Alta.	15	35	40	40	35
B.C.	50	45	45	40	40
Yukon	5	—	—	—	—
N.W.T.	5	10	—	5	5
Canada	320	310	340	290	330

TABLE M.7 (Concluded)

ESTIMATED<sup>1</sup> DEATHS INDIRECTLY<sup>2</sup> DUE TO ALCOHOL,  
CANADA AND PROVINCES, 1985 TO 1989

Province	Total				
	1985	1986	1987	1988	1989
Nfld.	270	260	275	285	285
P.E.I.	90	105	85	90	85
N.S.	600	590	590	625	620
N.B.	440	465	455	460	470
Que.	3,945	3,940	3,980	4,030	4,105
Ont.	5,385	5,415	5,480	5,715	5,745
Man.	695	745	720	715	720
Sask.	680	705	685	710	675
Alta.	1,100	1,260	1,235	1,255	1,265
B.C.	1,755	1,865	1,910	1,900	1,945
Yukon	10	10	5	10	—
N.W.T.	25	30	20	25	30
<b>Canada</b>	<b>15,015</b>	<b>15,390</b>	<b>15,450</b>	<b>15,810</b>	<b>15,960</b>

<sup>1</sup> Figures have been rounded to the nearest multiple of 5.

<sup>2</sup> The number of deaths indirectly due to alcohol have been estimated on the basis of data provided by the Working Group on Alcohol Statistics in *Alcohol in Canada: A National Perspective* (Ottawa: National Health and Welfare, 1984). These estimates by cause of death are as follows: Neoplasms – 10%; diseases of the circulatory system – 5%; diseases of the respiratory system – 15%; motor vehicle accidents – 45%; accidental falls – 40%; accidents caused by fire and flames – 30%; accidental drowning and submersion – 30%; suicide and self-inflicted injury – 30%; and homicide – 60%.

Sources: Statistics Canada, Causes of Death – Vital Statistics Volume IV, 1985 and 1986 (Ottawa: Statistics Canada, Catalogue No. 84–203, 1986 and 1988); Statistics Canada, Health Reports Supplement, Volume 1, No. 1, 1989 – Causes of Death, 1987 (Ottawa: Statistics Canada, Catalogue No. 82–003S, 1989); Statistics Canada, Health Reports, Supplement No. 11, 1990, Volume 2, No. 1 – Causes of Death, 1988 (Ottawa: Statistics Canada, Catalogue No. 82–003S, 1990); Statistics Canada, Health Reports Supplement No. 11, 1991, Volume 3, No. 1 – Causes of Death, 1989 (Ottawa: Statistics Canada, Catalogue No. 82–003S, 1991); Health and Welfare Canada, Alcohol in Canada: A National Perspective (Ottawa: National Health and Welfare, 1984).

TABLE M.8

ESTIMATED DEATHS<sup>1</sup> INDIRECTLY DUE TO ALCOHOL, RATES  
PER 100,000 POPULATION, CANADA AND PROVINCES,  
1985 TO 1989

Province	Neoplasms				
	1985	1986	1987	1988	1989
Nfld.	14.0	15.0	15.8	15.0	16.7
P.E.I.	23.8	23.7	19.6	19.4	19.2
N.S.	21.2	21.8	21.0	22.6	22.6
N.B.	18.3	19.0	19.7	20.3	19.5
Que.	19.0	19.9	20.2	20.8	20.9
Ont.	19.3	19.3	19.6	20.2	20.2
Man.	20.2	21.0	20.9	21.7	21.2
Sask.	19.3	18.8	19.2	19.8	18.4
Alta.	13.4	13.7	13.9	14.6	14.6
B.C.	18.8	19.4	19.3	20.1	20.6
Yukon	—	—	—	19.8	—
N.W.T.	9.6	9.6	9.7	9.7	9.4
Canada	18.6	18.9	19.2	19.8	19.8

Province	Diseases of the Circulatory System				
	1985	1986	1987	1988	1989
Nfld.	14.9	15.0	15.0	14.1	14.0
P.E.I.	19.8	23.7	19.6	19.4	19.2
N.S.	18.4	18.3	17.6	17.5	17.5
N.B.	16.2	16.9	16.8	16.1	16.7
Que.	14.9	15.0	14.6	14.6	14.2
Ont.	16.8	16.6	15.9	16.0	15.5
Man.	17.9	17.7	16.7	16.6	16.6
Sask.	17.4	16.8	16.3	17.3	17.4
Alta.	10.6	11.4	11.1	11.2	11.1
B.C.	15.3	15.2	15.4	14.9	14.6
Yukon	—	—	—	—	—
N.W.T.	—	—	—	—	—
Canada	15.6	15.6	15.2	15.1	14.8

Province	Diseases of the Respiratory System				
	1985	1986	1987	1988	1989
Nfld.	7.0	7.0	6.2	7.0	7.0
P.E.I.	11.9	11.8	11.8	11.7	11.5
N.S.	10.9	11.5	10.2	12.4	12.4
N.B.	9.2	9.9	7.7	8.4	9.7
Que.	7.6	8.3	8.0	8.5	8.8
Ont.	8.0	8.7	8.3	9.2	8.9
Man.	10.8	11.2	10.2	10.6	10.6
Sask.	10.9	12.4	9.9	11.9	11.4
Alta.	7.0	6.9	6.7	7.5	7.6
B.C.	10.1	9.3	9.9	10.6	10.5
Yukon	—	—	—	—	—
N.W.T.	—	9.6	9.7	9.7	9.4
Canada	8.4	8.8	8.4	9.2	9.2

TABLE M.8 (Continued)

**ESTIMATED DEATHS<sup>1</sup> INDIRECTLY DUE TO ALCOHOL, RATES PER 100,000 POPULATION, CANADA AND PROVINCES, 1985 TO 1989**

Province	Motor Vehicle Accidents				
	1985	1986	1987	1988	1989
Nfld.	6.1	5.3	5.3	6.2	7.0
P.E.I.	11.9	11.8	7.9	7.8	7.7
N.S.	9.2	8.0	9.1	8.5	7.9
N.B.	9.2	9.1	9.8	10.5	10.4
Que.	9.1	7.0	7.8	7.5	8.0
Ont.	6.8	5.9	6.4	6.3	6.6
Man.	7.0	7.9	7.4	6.9	7.4
Sask.	9.9	11.4	11.3	9.4	9.9
Alta.	8.5	10.7	10.5	9.0	9.7
B.C.	7.3	9.5	9.7	8.5	8.0
Yukon	21.3	21.3	20.5	19.8	—
N.W.T.	19.3	9.6	9.7	9.7	9.4
Canada	7.9	7.6	7.9	7.5	7.7

Province	Accidental Falls				
	1985	1986	1987	1988	1989
Nfld.	1.7	0.9	1.8	2.6	1.8
P.E.I.	4.0	3.9	3.9	7.8	3.8
N.S.	2.9	2.9	2.8	3.4	3.4
N.B.	2.8	2.8	2.8	2.8	2.8
Que.	2.2	2.6	2.2	2.5	2.4
Ont.	3.3	3.7	3.5	3.8	3.6
Man.	2.8	3.7	3.2	3.2	3.2
Sask.	3.5	4.0	3.5	4.5	4.0
Alta.	2.1	2.7	2.3	2.7	2.3
B.C.	3.8	3.6	4.1	3.4	3.4
Yukon	—	—	—	—	—
N.W.T.	—	—	—	—	—
Canada	2.9	3.2	3.0	3.2	3.1

Province	Accidents Caused by Fire and Flames				
	1985	1986	1987	1988	1989
Nfld.	0.9	0.9	0.9	0.9	0.9
P.E.I.	—	3.9	—	—	—
N.S.	0.6	0.6	0.6	1.1	1.1
N.B.	0.7	1.4	1.4	0.7	0.7
Que.	0.6	0.6	0.5	0.5	0.4
Ont.	0.6	0.4	0.4	0.3	0.5
Man.	0.9	0.9	0.5	0.9	0.5
Sask.	0.5	0.5	1.0	0.5	0.5
Alta.	0.4	0.4	0.4	0.4	0.4
B.C.	0.3	0.7	0.3	0.5	0.5
Yukon	—	—	—	—	—
N.W.T.	—	—	—	—	—
Canada	0.6	0.6	0.5	0.5	0.5



TABLE M.8 (Continued)

**ESTIMATED DEATHS<sup>1</sup> INDIRECTLY DUE TO ALCOHOL, RATES PER 100,000 POPULATION, CANADA AND PROVINCES, 1985 TO 1989**

<b>Accidental Drowning and Submersion</b>					
<b>Province</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>
Nfld.	1.7	0.9	0.9	0.9	0.9
P.E.I.	-	-	-	-	-
N.S.	0.6	-	0.6	0.6	0.6
N.B.	0.7	0.7	0.7	0.7	0.7
Que.	0.6	0.4	0.4	0.5	0.4
Ont.	0.4	0.3	0.4	0.4	0.3
Man.	0.5	0.5	0.9	0.5	0.9
Sask.	0.5	0.5	1.0	1.0	0.5
Alta.	0.2	0.4	0.4	0.2	0.4
B.C.	0.5	0.7	0.7	0.5	0.7
Yukon	-	-	-	-	-
N.W.T.	-	-	-	-	-
<b>Canada</b>	<b>0.5</b>	<b>0.4</b>	<b>0.5</b>	<b>0.5</b>	<b>0.4</b>

<b>Suicide and Self-inflicted Injury</b>					
<b>Province</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>
Nfld.	0.9	0.9	1.8	2.6	1.8
P.E.I.	-	3.9	3.9	3.9	3.8
N.S.	3.4	3.4	4.0	3.4	3.4
N.B.	3.5	4.2	3.5	4.2	3.5
Que.	5.1	5.3	5.4	4.9	4.7
Ont.	3.4	3.7	3.5	3.3	3.6
Man.	3.8	4.2	4.6	4.1	4.2
Sask.	4.0	4.0	3.9	4.5	3.5
Alta.	3.8	5.3	4.8	5.0	4.5
B.C.	3.1	4.5	4.3	3.9	4.1
Yukon	-	21.3	-	-	-
N.W.T.	9.6	9.6	9.7	9.7	18.7
<b>Canada</b>	<b>3.9</b>	<b>4.3</b>	<b>4.2</b>	<b>4.1</b>	<b>4.0</b>

<b>Homicide</b>					
<b>Province</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>
Nfld.	-	-	0.9	0.9	-
P.E.I.	-	-	-	-	-
N.S.	1.7	1.1	1.1	1.1	1.1
N.B.	1.4	1.4	1.4	0.7	1.4
Que.	1.4	1.2	1.2	1.0	1.6
Ont.	1.2	0.8	1.2	1.1	0.9
Man.	1.4	2.3	2.3	1.4	1.8
Sask.	1.5	1.5	1.5	1.5	1.5
Alta.	0.6	1.5	1.7	1.7	1.4
B.C.	1.7	1.6	1.5	1.3	1.3
Yukon	21.3	-	-	-	-
N.W.T.	9.6	19.2	-	9.7	9.4
<b>Canada</b>	<b>1.3</b>	<b>1.2</b>	<b>1.3</b>	<b>1.1</b>	<b>1.3</b>

**TABLE M.8 (Concluded)**

**ESTIMATED DEATHS<sup>1</sup> INDIRECTLY DUE TO ALCOHOL, RATES PER 100,000 POPULATION, CANADA AND PROVINCES, 1985 TO 1989**

Province	Total				
	1985	1986	1987	1988	1989
Nfld.	47.2	45.8	48.4	50.2	50.0
P.E.I.	71.4	82.9	66.8	69.9	65.3
N.S.	68.9	67.6	67.1	70.7	69.9
N.B.	62.0	65.5	63.9	64.4	65.4
Que.	60.6	60.2	60.4	60.7	61.4
Ont.	59.8	59.4	59.1	60.6	60.0
Man.	65.3	69.5	66.7	65.9	66.4
Sask.	67.4	69.8	67.6	70.2	67.0
Alta.	46.8	53.1	51.9	52.3	52.1
B.C.	61.1	64.6	65.3	63.7	63.7
Yukon	42.6	42.6	20.5	39.5	—
N.W.T.	48.2	57.5	38.7	48.3	56.2
<b>Canada</b>	<b>59.7</b>	<b>60.7</b>	<b>60.3</b>	<b>61.0</b>	<b>60.9</b>

<sup>1</sup> The number of deaths indirectly due to alcohol have been estimated on the basis of data provided by the Working Group on Alcohol Statistics in Alcohol in Canada: A National Perspective (Ottawa: National Health and Welfare, 1984). These estimates by cause of death are as follows: Neoplasms – 10%; diseases of the circulatory system – 5%; diseases of the respiratory system – 15%; motor vehicle accidents – 45%; accidental falls – 40%; accidents caused by fire and flames – 30%; accidental drowning and submersion – 30%; suicide and self-inflicted injury – 30%; and homicide – 60%.

Sources: Statistics Canada, Causes of Death – Vital Statistics Volume IV, 1985 and 1986 (Ottawa: Statistics Canada, Catalogue No. 84–203, 1986 and 1988); Statistics Canada, Health Reports Supplement, Volume 1, No. 1, 1989 – Causes of Death, 1987 (Ottawa: Statistics Canada, Catalogue No. 82–003S, 1989); Statistics Canada, Health Reports, Supplement No. 11, 1990, Volume 2, No. 1 – Causes of Death, 1988 (Ottawa: Statistics Canada, Catalogue No. 82–003S, 1990); Statistics Canada, Health Reports Supplement No. 11, 1991, Volume 3, No. 1 – Causes of Death, 1989 (Ottawa: Statistics Canada, Catalogue No. 82–003S, 1991); Health and Welfare Canada, Alcohol in Canada: A National Perspective (Ottawa: National Health and Welfare, 1984).

TABLE M.9

ESTIMATED DEATHS<sup>1</sup> INDIRECTLY DUE TO ALCOHOL, RATES  
PER 100,000 POPULATION AGED 20 AND OVER,  
CANADA AND PROVINCES, 1985 TO 1989

Province	Neoplasms				
	1985	1986	1987	1988	1989
Nfld.	22.2	23.4	24.5	22.8	25.1
P.E.I.	35.1	34.8	28.6	28.1	27.7
N.S.	30.5	30.9	29.7	31.8	31.6
N.B.	26.9	27.7	28.4	29.1	27.8
Que.	26.5	27.5	27.9	28.5	28.5
Ont.	27.0	26.8	27.2	27.9	27.8
Man.	29.0	30.1	29.8	30.9	30.1
Sask.	28.6	27.7	28.3	29.0	26.9
Alta.	19.7	20.0	20.2	21.2	21.2
B.C.	26.1	26.8	26.6	27.7	28.3
Yukon	—	—	—	29.6	—
N.W.T.	16.9	16.7	16.9	16.7	16.0
Canada	26.3	26.6	26.9	27.6	27.6

Province	Diseases of the Circulatory System				
	1985	1986	1987	1988	1989
Nfld.	23.6	23.4	23.1	21.5	21.1
P.E.I.	29.2	34.8	28.6	28.1	27.7
N.S.	26.4	26.1	24.9	24.7	24.5
N.B.	23.8	24.6	24.3	23.1	23.8
Que.	20.8	20.8	20.2	20.1	19.4
Ont.	23.5	23.1	22.0	22.1	21.3
Man.	25.7	25.4	23.8	23.6	23.6
Sask.	25.7	24.8	23.9	25.4	25.5
Alta.	15.6	16.6	16.2	16.4	16.1
B.C.	21.3	21.1	21.2	20.5	20.0
Yukon	—	—	—	—	—
N.W.T.	—	—	—	—	—
Canada	22.1	22.0	21.3	21.1	20.6

Province	Diseases of the Respiratory System				
	1985	1986	1987	1988	1989
Nfld.	11.1	11.0	9.5	10.7	10.6
P.E.I.	17.5	17.4	17.2	16.9	16.6
N.S.	15.6	16.3	14.5	17.5	17.4
N.B.	13.4	14.3	11.2	12.0	13.9
Que.	10.6	11.4	11.1	11.7	12.1
Ont.	11.2	12.1	11.5	12.7	12.3
Man.	15.5	16.0	14.5	15.1	15.1
Sask.	16.1	18.2	14.5	17.4	16.7
Alta.	10.3	10.1	9.8	10.9	11.0
B.C.	14.0	12.9	13.7	14.5	14.4
Yukon	—	—	—	—	—
N.W.T.	—	16.7	16.9	16.7	16.0
Canada	11.9	12.4	11.8	12.9	12.9

TABLE M.9 (Continued)

ESTIMATED DEATHS<sup>1</sup> INDIRECTLY DUE TO ALCOHOL, RATES PER 100,000 POPULATION AGED 20 AND OVER, CANADA AND PROVINCES, 1985 TO 1989

Province	Motor Vehicle Accidents				
	1985	1986	1987	1988	1989
Nfld.	9.7	8.3	8.2	9.4	10.6
P.E.I.	17.5	17.4	11.4	11.2	11.1
N.S.	13.2	11.4	12.9	11.9	11.1
N.B.	13.4	13.3	14.2	15.1	14.9
Que.	12.7	9.7	10.8	10.3	10.9
Ont.	9.6	8.2	8.8	8.7	9.1
Man.	10.1	11.4	10.6	9.8	10.5
Sask.	14.7	16.8	16.7	13.8	14.5
Alta.	12.5	15.7	15.3	13.0	14.0
B.C.	10.2	13.2	13.4	11.8	11.0
Yukon	32.1	31.6	30.5	29.6	—
N.W.T.	33.8	16.7	16.9	16.7	16.0
Canada	11.3	10.6	11.1	10.5	10.8

Province	Accidental Falls				
	1985	1986	1987	1988	1989
Nfld.	2.8	1.4	2.7	4.0	2.6
P.E.I.	5.8	5.8	5.7	11.2	5.5
N.S.	4.1	4.1	4.0	4.8	4.7
N.B.	4.1	4.1	4.1	4.0	4.0
Que.	3.1	3.6	3.0	3.4	3.3
Ont.	4.7	5.1	4.8	5.3	4.9
Man.	4.1	5.3	4.6	4.6	4.6
Sask.	5.1	5.8	5.1	6.5	5.8
Alta.	3.1	4.0	3.4	3.9	3.3
B.C.	5.3	5.0	5.7	4.6	4.7
Yukon	—	—	—	—	—
N.W.T.	—	—	—	—	—
Canada	4.1	4.5	4.2	4.5	4.2

Province	Accidents Caused by Fire and Flames				
	1985	1986	1987	1988	1989
Nfld.	1.4	1.4	1.4	1.3	1.3
P.E.I.	—	5.8	—	—	—
N.S.	0.8	0.8	0.8	1.6	1.6
N.B.	1.0	2.0	2.0	1.0	1.0
Que.	0.9	0.8	0.6	0.6	0.5
Ont.	0.8	0.6	0.6	0.4	0.6
Man.	1.4	1.3	0.7	1.3	0.7
Sask.	0.7	0.7	1.5	0.7	0.7
Alta.	0.6	0.6	0.6	0.6	0.6
B.C.	0.5	1.0	0.5	0.7	0.7
Yukon	—	—	—	—	—
N.W.T.	—	—	—	—	—
Canada	0.8	0.8	0.7	0.6	0.7



TABLE M.9 (Continued)

**ESTIMATED DEATHS<sup>1</sup> INDIRECTLY DUE TO ALCOHOL, RATES  
PER 100,000 POPULATION AGED 20 AND OVER,  
CANADA AND PROVINCES, 1985 TO 1989**

<b>Accidental Drowning and Submersion</b>					
<b>Province</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>
Nfld.	2.8	1.4	1.4	1.3	1.3
P.E.I.	-	-	-	-	-
N.S.	0.8	-	0.8	0.8	0.8
N.B.	1.0	1.0	1.0	1.0	1.0
Que.	0.9	0.5	0.5	0.6	0.5
Ont.	0.5	0.5	0.6	0.6	0.4
Man.	0.7	0.7	1.3	0.7	1.3
Sask.	0.7	0.7	1.5	1.5	0.7
Alta.	0.3	0.6	0.6	0.3	0.6
B.C.	0.7	1.0	0.9	0.7	0.9
Yukon	-	-	-	-	-
N.W.T.	-	-	-	-	-
<b>Canada</b>	<b>0.7</b>	<b>0.6</b>	<b>0.7</b>	<b>0.6</b>	<b>0.6</b>

<b>Suicide and Self-inflicted Injury</b>					
<b>Province</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>
Nfld.	1.4	1.4	2.7	4.0	2.6
P.E.I.	-	5.8	5.7	5.6	5.5
N.S.	4.9	4.9	5.6	4.8	4.7
N.B.	5.2	6.1	5.1	6.0	5.0
Que.	7.2	7.3	7.4	6.7	6.4
Ont.	4.8	5.2	4.8	4.6	5.0
Man.	5.4	6.0	6.6	5.9	5.9
Sask.	5.9	5.8	5.8	6.5	5.1
Alta.	5.6	7.7	7.0	7.3	6.6
B.C.	4.4	6.2	5.9	5.3	5.6
Yukon	-	31.6	-	-	-
N.W.T.	16.9	16.7	16.9	16.7	32.1
<b>Canada</b>	<b>5.5</b>	<b>6.1</b>	<b>5.9</b>	<b>5.7</b>	<b>5.6</b>

<b>Homicide</b>					
<b>Province</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>
Nfld.	-	-	1.4	1.3	-
P.E.I.	-	-	-	-	-
N.S.	2.5	1.6	1.6	1.6	1.6
N.B.	2.1	2.0	2.0	1.0	2.0
Que.	1.9	1.7	1.7	1.3	2.2
Ont.	1.6	1.1	1.6	1.5	1.3
Man.	2.0	3.3	3.3	2.0	2.6
Sask.	2.2	2.2	2.2	2.2	2.2
Alta.	0.9	2.2	2.4	2.4	2.1
B.C.	2.4	2.2	2.1	1.8	1.8
Yukon	32.1	-	-	-	-
N.W.T.	16.9	33.4	-	16.7	16.0
<b>Canada</b>	<b>1.8</b>	<b>1.7</b>	<b>1.9</b>	<b>1.6</b>	<b>1.8</b>

TABLE M.9 (Concluded)

**ESTIMATED DEATHS<sup>1</sup> INDIRECTLY DUE TO ALCOHOL, RATES PER 100,000 POPULATION AGED 20 AND OVER, CANADA AND PROVINCES, 1985 TO 1989**

Province	Total				
	1985	1986	1987	1988	1989
Nfld.	74.8	71.6	74.8	76.6	75.2
P.E.I.	105.3	121.7	97.3	101.1	94.2
N.S.	98.8	96.1	94.8	99.4	97.9
N.B.	91.0	95.3	92.3	92.4	93.3
Que.	84.5	83.5	83.2	83.3	83.9
Ont.	83.7	82.7	81.9	83.8	82.8
Man.	93.9	99.5	95.2	93.9	94.4
Sask.	99.7	102.8	99.3	103.1	98.2
Alta.	68.6	77.5	75.6	76.0	75.5
B.C.	84.9	89.3	90.1	87.6	87.2
Yukon	64.1	63.3	30.5	59.2	—
N.W.T.	84.5	100.3	67.6	83.3	96.2
<b>Canada</b>	<b>84.5</b>	<b>85.4</b>	<b>84.5</b>	<b>85.2</b>	<b>84.7</b>

<sup>1</sup> The number of deaths indirectly due to alcohol have been estimated on the basis of data provided by the Working Group on Alcohol Statistics in Alcohol in Canada: A National Perspective (Ottawa: National Health and Welfare, 1984). These estimates by cause of death are as follows: Neoplasms – 10%; diseases of the circulatory system – 5%; diseases of the respiratory system – 15%; motor vehicle accidents – 45%; accidental falls – 40%; accidents caused by fire and flames – 30%; accidental drowning and submersion – 30%; suicide and self-inflicted injury – 30%; and homicide – 60%.

Sources: Statistics Canada, Causes of Death – Vital Statistics Volume IV, 1985 and 1986 (Ottawa: Statistics Canada, Catalogue No. 84–203, 1986 and 1988); Statistics Canada, Health Reports Supplement, Volume 1, No. 1, 1989 – Causes of Death, 1987 (Ottawa: Statistics Canada, Catalogue No. 82–003S, 1989); Statistics Canada, Health Reports, Supplement No. 11, 1990, Volume 2, No. 1 – Causes of Death, 1988 (Ottawa: Statistics Canada, Catalogue No. 82–003S, 1990); Statistics Canada, Health Reports Supplement No. 11, 1991, Volume 3, No. 1 – Causes of Death, 1989 (Ottawa: Statistics Canada, Catalogue No. 82–003S, 1991); Health and Welfare Canada, Alcohol in Canada: A National Perspective (Ottawa: National Health and Welfare, 1984).

**Chapter N** \_\_\_\_\_  
**DRUG-RELATED MORTALITY IN CANADA**

## Chapter N

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# DRUG-RELATED MORTALITY IN CANADA

### Figures

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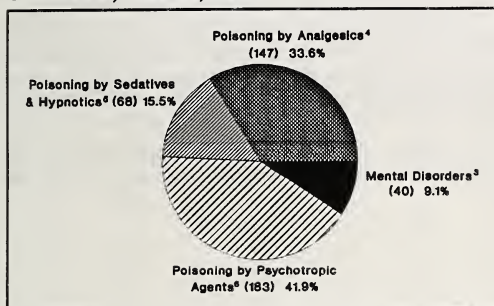
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## N. DRUG-RELATED MORTALITY IN CANADA

### Highlights

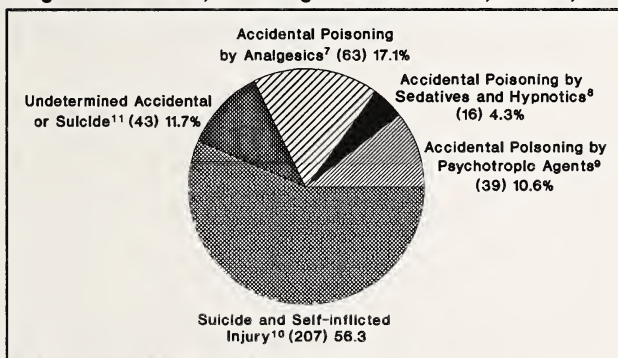
**Figure N.1**  
Drug-Related Deaths, According to Nature of Conditions, Canada, 1989



In 1989, there were 428 deaths from drug-related diagnoses<sup>1</sup>, a rise of 3.4% from a year ago. The number of male and female deaths were about equal, 216 and 212 respectively (Table N.1)<sup>2</sup>. Forty of the total deaths were due to mental disorders<sup>3</sup>, 147 were due to poisoning by analgesics<sup>4</sup>, 58 were due to poisoning by sedatives and hypnotics<sup>5</sup>, and 183 were due to poisoning by psychotropic agents<sup>6</sup> (Figure N.1, Table N.1). Regionally, Ontario (159) and British Columbia (112) together accounted for 63% of all drug-related mortality in the year (Table N.1). Quebec and Alberta followed with 55 and 50 deaths respectively.

**Figure N.2**  
Drug-Related Deaths, According to External Cause, Canada, 1989

In terms of external causes, there were a total of 368 drug-related deaths (186 females and 182 males), one less than the previous year (Table N.2). Of this total, 63 were accidental poisoning by analgesics<sup>7</sup>, 16 were from accidental poisoning by sedatives and hypnotics<sup>8</sup>, 39 from accidental poisoning by psychotropic agents<sup>9</sup>, 207 from suicide and self inflicted injury<sup>10</sup>, and 43 from undetermined injury<sup>11</sup>, accidentally or purposely inflicted (Figure N.2, Table N.2)<sup>6</sup>.



- <sup>1</sup> For medical conditions included under each diagnostic category see Technical Notes.
- <sup>2</sup> In Table N.1, deaths are classified according to the nature of injury, but in Table N.2, external cause is employed.
- <sup>3</sup> Includes 1 death from drug psychoses, 14 from drug dependence and 25 from nondependent abuse of drugs (excluding alcohol but includes those deaths where the drug diagnosis is noted as primary cause of death.)
- <sup>4</sup> Includes 58 deaths from opiates and related narcotics, 47 from salicylates and 42 from other analgesics.
- <sup>5</sup> Includes 34 deaths from barbiturates, 5 from chloral hydrate group, 2 from methaqualone compounds and 17 from other sedatives and hypnotics.
- <sup>6</sup> Includes 143 deaths from antidepressants, 3 from phenothiazine tranquilizers, 24 from benzodiazepine and 7 from other psychotropic agents.

## Explanatory Notes

Due to the provincial and territorial Vital Statistics Acts or equivalent legislation, registration of all deaths in Canada is compulsory. Statistics Canada is responsible for the design and printing of a standard registration form to ensure uniformity in the information that it collects and subsequently disseminates.

The legal reporting requirements render the death registrations virtually complete. For example, for the 5-year period 1982 to 1986, the completeness of 8 out of the 11 core data items has been over 99%.

Information received after a cut-off date is entered but not edited, resulting in some under coverage at the time of dissemination. However, the numbers are small. For example, in 1986, late registration accounted for less than one quarter of one per cent of the reported deaths.

The data reported are classified according to the 9th Revision of the International Classification (ICD-9) which has been used in Canada since 1979. For medical conditions included under each diagnostic category see Technical Notes in Appendix B.

<sup>7</sup> Includes 41 deaths from accidental poisoning from opiates and related narcotics, 13 from salicylates and 9 from other analgesics.

<sup>8</sup> Includes 8 deaths from barbiturates, 1 from chloral hydrate group, 2 from methaqualone compounds, and 5 from other sedatives and hypnotics.

<sup>9</sup> Includes 25 deaths from antidepressants, 3 from phenothiazine tranquilizers, 10 from benzodiazepine tranquilizers and 1 from other tranquilizers and psychotropic agents.

<sup>10</sup> Includes 55 deaths from poisoning by analgesics, 22 from poisoning by sedatives and hypnotics (barbiturates), 9 from other sedatives and hypnotics, 121 from poisoning by psychotropic agent.

<sup>11</sup> Includes 19 from deaths poisoning by analgesics, 4 from poisoning by sedatives and hypnotics (barbiturates), 6 from other sedatives and hypnotics, and 14 from poisoning by psychotropic agents.

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TABLE N.1

**DRUG-RELATED DEATHS<sup>1</sup>, ACCORDING TO NATURE OF  
CONDITION<sup>2</sup>, BY SEX, CANADA AND PROVINCES, 1986 TO 1989**
**MENTAL DISORDERS:**

Province	Drug Psychoses											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	-	-	-	-	-	-	-	-	-	-
N.B.	-	-	-	-	-	-	-	-	-	-	-	-
Que.	-	-	-	-	-	-	-	-	-	-	-	-
Ont.	-	-	-	1	-	-	-	-	-	-	-	1
Man.	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	-	-	-	-	-	-	-	-	-	-	-	-
Alta.	-	-	-	-	-	-	-	-	-	-	-	-
B.C.	-	-	-	-	-	-	-	-	-	-	-	-
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	1	-	-	-	-	-	-	-	1

Province	Drug Dependence											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	-	1	-	-	-	-	-	-	-	1
N.B.	-	-	-	-	-	-	-	-	-	-	-	-
Que.	2	-	-	2	-	-	-	-	2	-	-	2
Ont.	1	2	1	1	1	-	-	-	2	2	1	1
Man.	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	-	-	-	-	-	-	-	-	-	-	-	-
Alta.	-	-	-	-	1	-	-	-	1	-	-	-
B.C.	9	10	18	7	3	6	3	3	12	16	21	10
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	12	12	19	11	5	6	3	3	17	18	22	14

Province	Nondependent Abuse of Drugs <sup>3</sup>											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	-	-	-	-	-	2	-	-	-	2
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	1	2	-	1	-	-	2	-	1	2	2	1
N.B.	-	-	-	-	-	-	-	-	-	-	-	-
Que.	1	3	1	3	1	1	2	1	2	4	3	4
Ont.	3	3	5	1	1	2	4	2	4	5	9	3
Man.	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	-	-	-	-	-	-	-	1	-	-	-	1
Alta.	1	1	5	3	1	2	2	4	2	3	7	7
B.C.	-	1	-	6	-	-	-	1	-	1	-	7
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	6	10	11	14	3	5	10	11	9	15	21	25



TABLE N.1 (Continued)

**DRUG-RELATED DEATHS<sup>1</sup>, ACCORDING TO NATURE OF  
CONDITION<sup>2</sup>, BY SEX, CANADA AND PROVINCES, 1986 TO 1989**
**POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES:**

Province	Analgesics, Antipyretics and Antirheumatics – Opiates and Related Narcotics											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	–	1	–	–	–	–	–	–	–	1	–	–
P.E.I.	–	–	–	–	–	–	–	–	–	–	–	–
N.S.	–	–	–	–	–	–	–	–	–	–	–	–
N.B.	–	–	–	–	–	–	–	–	–	–	–	–
Que.	2	9	9	1	5	–	2	2	7	9	11	3
Ont.	11	15	13	17	4	4	4	3	15	19	17	20
Man.	–	1	1	–	–	–	–	3	–	1	1	3
Sask.	2	1	–	1	–	–	–	–	2	1	–	1
Alta.	5	6	6	1	2	1	4	–	7	7	10	1
B.C.	15	11	15	21	4	7	1	8	19	18	16	29
Yukon	–	–	–	–	–	–	–	–	–	–	–	–
N.W.T.	–	–	–	–	–	–	–	1	–	–	–	1
Canada	35	44	44	41	15	12	11	17	50	56	55	58

Province	Analgesics, Antipyretics and Antirheumatics – Salicylates											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	–	–	–	–	–	1	–	–	–	1	–	–
P.E.I.	–	1	–	–	–	–	–	–	–	1	–	–
N.S.	1	–	–	1	1	2	–	1	2	2	–	2
N.B.	–	–	–	–	–	–	–	1	–	–	–	1
Que.	7	3	4	5	7	8	4	5	14	11	8	10
Ont.	10	5	8	5	11	11	7	10	21	16	15	15
Man.	1	1	1	–	2	1	3	–	3	2	4	–
Sask.	2	1	1	–	1	2	2	1	3	3	3	1
Alta.	4	2	1	2	5	3	4	6	9	5	5	8
B.C.	6	4	–	6	8	13	8	3	14	17	8	9
Yukon	–	–	–	–	–	–	–	–	–	–	–	–
N.W.T.	–	–	–	–	1	–	–	1	1	–	–	1
Canada	31	17	15	19	36	41	28	28	67	58	43	47

Province	Analgesics, Antipyretics and Antirheumatics – Other											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	–	–	–	–	–	–	–	–	–	–	–	–
P.E.I.	–	–	–	–	–	–	–	–	–	–	–	–
N.S.	1	1	–	3	–	2	–	–	1	3	–	3
N.B.	–	–	–	–	–	–	–	–	–	–	–	–
Que.	2	2	1	2	2	2	–	2	4	4	1	4
Ont.	5	6	6	10	12	10	16	7	17	16	22	17
Man.	–	1	1	–	2	–	–	–	2	1	1	–
Sask.	1	2	1	1	2	1	2	1	3	3	3	2
Alta.	4	5	1	3	6	9	2	5	10	14	3	8
B.C.	9	6	2	4	5	9	7	4	14	15	9	8
Yukon	–	–	–	–	–	–	–	–	–	–	–	–
N.W.T.	–	–	–	–	–	–	1	–	–	–	1	–
Canada	22	23	12	23	29	33	28	19	51	56	40	42

TABLE N.1 (Continued)

DRUG-RELATED DEATHS<sup>1</sup>, ACCORDING TO NATURE OF CONDITION<sup>2</sup>, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):

Province	Sedatives and Hypnotics – Barbiturates											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	2	-	-	-	-	-	-	-	2	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	1	-	-	-	-	-	-	-	1	-
N.B.	1	1	-	-	-	-	-	-	1	1	-	-
Que.	3	2	1	1	5	6	6	4	8	8	7	5
Ont.	9	10	7	6	10	12	4	9	19	22	11	15
Man.	-	2	1	2	2	-	-	-	2	2	1	2
Sask.	1	-	-	-	-	-	-	-	1	-	-	-
Alta.	2	-	1	1	1	1	1	1	3	1	2	2
B.C.	2	5	6	4	1	3	6	6	3	8	12	10
Yukon	-	-	-	-	-	1	-	-	-	1	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	18	22	17	14	19	23	17	20	37	45	34	34

Province	Sedatives and Hypnotics – Chloral Hydrate Group											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	-	-	-	-	-	-	-	-	-	-
N.B.	-	1	-	-	-	-	-	-	-	1	-	-
Que.	-	1	-	-	-	-	-	-	-	1	-	-
Ont.	1	-	2	4	1	1	1	-	2	1	3	4
Man.	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	-	1	-	-	2	1	-	-	2	2	-	-
Alta.	-	2	-	-	-	1	1	1	-	3	1	1
B.C.	-	-	1	-	-	1	1	-	-	1	2	-
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	1	5	3	4	3	4	3	1	4	9	6	5

Province	Sedatives and Hypnotics – Methaqualone Compounds											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	-	-	-	-	-	-	-	-	-	-
N.B.	-	-	-	-	-	-	-	-	-	-	-	-
Que.	-	-	-	-	-	-	-	-	-	-	-	-
Ont.	-	-	1	-	-	-	-	-	-	-	1	-
Man.	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	-	-	-	-	-	-	-	-	-	-	-	-
Alta.	-	-	-	-	-	-	-	-	-	-	-	-
B.C.	1	-	-	1	-	-	-	1	1	-	-	2
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	1	-	1	1	-	-	-	1	1	-	1	2

TABLE N.1 (Continued)

**DRUG-RELATED DEATHS<sup>1</sup>, ACCORDING TO NATURE OF  
CONDITION<sup>2</sup>, BY SEX, CANADA AND PROVINCES, 1986 TO 1989**
**POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):**
**Sedatives and Hypnotics – Other**

Province	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	—	—	—	—	—	—	—	—	—	—	—	—
P.E.I.	—	—	—	—	—	1	—	—	—	1	—	—
N.S.	—	—	2	1	—	—	1	—	—	—	3	1
N.B.	1	—	—	—	—	—	—	—	1	—	—	—
Que.	2	5	3	2	1	1	2	—	3	6	5	2
Ont.	2	2	5	1	2	2	3	7	4	4	8	8
Man.	—	—	—	—	1	—	—	—	1	—	—	—
Sask.	—	—	1	—	—	1	1	1	—	1	2	1
Alta.	1	1	—	—	1	1	—	1	2	2	—	1
B.C.	—	1	1	4	3	1	—	—	3	2	1	4
Yukon	—	—	—	—	—	—	—	—	—	—	—	—
N.W.T.	—	—	—	—	—	—	—	—	—	—	—	—
Canada	6	9	12	8	8	7	7	9	14	16	19	17

**Psychotropic Agents – Antidepressants**

Province	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	—	—	—	—	1	—	—	1	1	—	—	1
P.E.I.	—	—	1	1	—	—	—	—	—	—	1	1
N.S.	2	2	4	5	2	2	4	3	4	4	8	8
N.B.	1	—	1	—	—	1	—	—	1	1	1	—
Que.	8	14	8	8	17	13	12	9	25	27	20	17
Ont.	20	22	23	23	22	20	24	36	42	42	47	59
Man.	1	3	1	1	1	4	3	5	2	7	4	6
Sask.	3	1	1	1	6	8	3	6	9	9	4	7
Alta.	12	9	11	6	11	4	12	12	23	13	23	18
B.C.	7	10	7	14	13	19	15	12	20	29	22	26
Yukon	—	—	1	—	—	—	—	—	—	—	1	—
N.W.T.	—	—	—	—	—	—	1	—	—	—	1	—
Canada	54	61	58	59	73	71	74	84	127	132	132	143

**Psychotropic Agents – Phenothiazine Tranquillizers**

Province	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	—	—	—	—	—	—	—	—	—	—	—	—
P.E.I.	—	—	—	—	—	—	—	—	—	—	—	—
N.S.	1	—	—	—	—	—	—	—	1	—	—	—
N.B.	—	—	—	—	—	—	—	—	—	—	—	—
Que.	—	2	2	—	—	2	1	—	—	4	3	—
Ont.	—	2	—	—	—	1	1	3	—	3	1	3
Man.	—	—	—	—	—	—	—	—	—	—	—	—
Sask.	—	1	—	—	—	—	2	—	—	1	2	—
Alta.	—	—	1	—	—	—	—	—	—	—	1	—
B.C.	1	—	—	—	1	—	—	—	2	—	—	—
Yukon	—	—	—	—	—	—	—	—	—	—	—	—
N.W.T.	—	—	—	—	—	—	—	—	—	—	—	—
Canada	2	5	3	—	1	3	4	3	3	8	7	3



TABLE N.1 (Continued)

**DRUG-RELATED DEATHS<sup>1</sup>, ACCORDING TO NATURE OF CONDITION<sup>2</sup>, BY SEX, CANADA AND PROVINCES, 1986 TO 1989**

**POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICAL SUBSTANCES (Cont'd):**

Province	Psychotropic Agents – Benzodiazepine Tranquillizers											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	-	-	-	1	-	-	-	1	-	-
N.B.	-	2	-	-	-	-	-	1	-	2	-	-
Que.	5	6	5	3	6	6	5	3	11	12	10	6
Ont.	2	4	4	6	3	1	3	2	5	5	7	8
Man.	-	-	1	-	-	-	-	-	-	-	1	-
Sask.	-	-	-	-	-	-	-	2	-	-	-	2
Alta.	2	1	-	-	-	2	-	1	2	3	-	1
B.C.	4	4	2	3	1	-	-	3	5	4	2	6
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
<b>Canada</b>	<b>13</b>	<b>17</b>	<b>12</b>	<b>12</b>	<b>10</b>	<b>10</b>	<b>8</b>	<b>12</b>	<b>23</b>	<b>27</b>	<b>20</b>	<b>24</b>

Province	Psychotropic Agents – Other Tranquillizers											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	-	1	-	-	-	-	-	-	-	1
P.E.I.	-	1	-	-	-	-	1	-	-	1	1	-
N.S.	-	-	1	-	-	-	-	1	-	-	1	1
N.B.	1	-	-	-	-	-	-	-	1	-	-	-
Que.	-	-	-	2	-	-	-	-	-	-	-	2
Ont.	-	3	-	-	3	3	-	-	3	6	-	-
Man.	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	-	-	-	-	-	1	-	-	-	1	-	-
Alta.	1	-	-	-	1	-	-	1	2	-	-	1
B.C.	-	-	-	1	-	-	-	-	-	-	-	1
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
<b>Canada</b>	<b>2</b>	<b>4</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>6</b>	<b>8</b>	<b>2</b>	<b>6</b>

Province	Psychotropic Agents – Other											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	1	-	-	-	-	-	-	-	1	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	-	-	-	-	-	-	-	-	-	-
N.B.	-	-	-	-	-	-	-	-	-	-	-	-
Que.	1	2	-	-	2	3	1	-	3	5	1	-
Ont.	4	2	4	4	2	4	1	1	6	6	5	5
Man.	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	-	1	-	-	1	-	-	-	1	1	-	-
Alta.	1	3	2	1	-	3	2	1	1	6	4	2
B.C.	-	1	-	-	-	-	1	-	-	1	1	-
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
<b>Canada</b>	<b>6</b>	<b>9</b>	<b>7</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>	<b>2</b>	<b>11</b>	<b>19</b>	<b>12</b>	<b>7</b>



TABLE N.1 (Concluded)

## DRUG-RELATED DEATHS<sup>1</sup>, ACCORDING TO NATURE OF CONDITION<sup>2</sup>, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

### TOTAL ALL CAUSES:

Province	Total											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	—	3	1	1	1	1	—	3	1	4	1	4
P.E.I.	—	2	1	1	—	1	1	—	—	3	2	1
N.S.	6	5	8	12	3	7	7	5	9	12	15	17
N.B.	4	4	1	—	—	1	—	2	4	5	1	2
Que.	33	49	34	29	46	42	35	26	79	91	69	55
Ont.	68	76	79	79	72	71	68	80	140	147	147	159
Man.	2	8	6	3	8	5	6	8	10	13	12	11
Sask.	9	8	4	3	12	14	10	12	21	22	14	15
Alta.	33	30	28	17	29	27	28	33	62	57	56	50
B.C.	54	53	52	71	39	59	42	41	93	112	94	112
Yukon	—	—	1	—	—	1	—	—	—	1	1	—
N.W.T.	—	—	—	—	1	—	2	2	1	—	2	2
Canada	209	238	215	216	211	229	199	212	420	467	414	428

<sup>1</sup> For medical conditions included under each diagnostic category see Technical Notes.

<sup>2</sup> The data presented above are not additive with those in Table N.2 as there is some overlap in deaths reported, due to the different method used in each case, for classifying the data within categories. Although in both cases 'underlying cause of death' is the main criterion for assignment to a category, in Table N.1 deaths are classified according to nature of injury, whereas in Table N.2, external cause is employed.

<sup>3</sup> Excluding alcohol.

Sources: Statistics Canada, Causes of Death — Vital Statistics Volume IV 1986 (Ottawa: Statistics Canada, Catalogue No. 84-203, 1988); Statistics Canada, Health Reports Supplement, Volume 1, No. 1, 1989 — Causes of Death, 1987 (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1989); Statistics Canada, Health Reports, Supplement No. 11, 1990, Volume 2, No. 1 — Causes of Death, 1988 (Ottawa: Statistics Canada, Catalogue 82-003S, 1990); Statistics Canada, Health Reports, Supplement No. 11, 1990, Volume 3, No. 1 — Causes of Death, 1989 (Ottawa: Statistics Canada, Catalogue 82-003S, 1991).

TABLE N.2

# DRUG-RELATED DEATHS<sup>1</sup>, ACCORDING TO EXTERNAL CAUSE<sup>2</sup>, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

## ACCIDENTAL POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICALS:

### Analgesics, Antipyretics and Antirheumatics – Opiates and Related Narcotics

Province	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	-	-	-	-	-	-	-	-	-	-
N.B.	-	-	-	-	-	-	-	-	-	-	-	-
Que.	1	2	5	2	-	-	1	1	1	2	6	3
Ont.	5	13	9	14	4	1	1	-	9	14	10	14
Man.	-	-	-	-	-	-	-	1	-	-	-	1
Sask.	1	-	-	1	-	-	-	-	1	-	-	1
Alta.	1	-	-	1	-	-	1	-	1	-	1	1
B.C.	12	6	13	15	4	5	-	6	16	11	13	21
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	20	21	27	33	8	6	3	8	28	27	30	41

### Analgesics, Antipyretics and Antirheumatics – Salicylates

Province	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	-	-	-	1	-	-	-	1	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	1	-	-	-	-	1	-	-	1	1	-	-
N.B.	-	-	-	-	-	-	-	-	-	-	-	-
Que.	-	1	-	2	-	-	1	1	-	1	1	3
Ont.	1	-	3	1	2	3	2	4	3	3	5	5
Man.	-	-	-	-	1	-	1	-	1	-	1	-
Sask.	-	-	1	-	1	1	1	-	1	1	2	-
Alta.	-	-	-	-	1	-	1	-	1	-	1	-
B.C.	1	1	-	3	2	9	6	2	3	10	6	5
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	1	-	-	-	1	-	-	-
Canada	3	2	4	6	8	15	12	7	11	17	16	13

### Analgesics, Antipyretics and Antirheumatics – Other

Province	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	1	1	-	-	-	-	-	-	1	1
N.B.	-	-	-	-	-	-	-	-	-	-	-	-
Que.	1	1	-	-	-	-	1	-	1	1	1	-
Ont.	3	1	4	2	4	4	5	-	7	5	9	2
Man.	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	-	1	1	-	-	1	1	-	-	2	2	-
Alta.	-	-	-	1	-	-	-	1	-	-	-	2
B.C.	5	2	-	2	3	3	5	2	8	5	5	4
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	9	5	6	6	7	8	12	3	16	13	18	9

TABLE N.2 (Continued)

**DRUG-RELATED DEATHS<sup>1</sup>, ACCORDING TO EXTERNAL CAUSE<sup>2</sup>,  
BY SEX, CANADA AND PROVINCES, 1986 TO 1989**
**ACCIDENTAL POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICALS (Cont'd):**

Province	Sedatives and Hypnotics – Barbiturates											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	1	-	-	-	-	-	-	-	1	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	-	-	-	-	-	-	-	-	-	-
N.B.	-	-	-	-	-	-	-	-	-	-	-	-
Que.	-	-	-	-	-	-	1	1	-	-	1	1
Ont.	2	4	1	2	2	-	-	1	4	4	1	3
Man.	-	1	-	1	-	-	-	-	-	1	-	1
Sask.	-	-	-	-	-	-	-	-	-	-	-	-
Alta.	1	-	-	-	-	-	-	-	1	-	-	-
B.C.	2	1	3	2	-	1	4	1	2	2	7	3
Yukon	-	-	-	-	-	1	-	-	-	1	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	5	7	4	5	2	2	5	3	7	9	9	8

Province	Sedatives and Hypnotics – Chloral Hydrate Group											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	-	-	-	-	-	-	-	-	-	-
N.B.	-	-	-	-	-	-	-	-	-	-	-	-
Que.	-	-	-	-	-	-	-	-	-	-	-	-
Ont.	-	-	-	1	-	-	-	-	-	-	-	1
Man.	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	-	1	-	-	-	-	-	-	-	1	-	-
Alta.	-	-	-	-	-	-	-	-	-	-	-	-
B.C.	-	-	1	-	-	-	-	-	-	-	1	-
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	1	1	1	-	-	-	-	-	1	1	1

Province	Sedatives and Hypnotics – Methaqualone Compounds											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	-	-	-	-	-	-	-	-	-	-
N.B.	-	-	-	-	-	-	-	-	-	-	-	-
Que.	-	-	-	-	-	-	-	-	-	-	-	-
Ont.	-	-	1	-	-	-	-	-	-	-	1	-
Man.	-	-	-	-	-	-	-	-	-	-	-	-
Sask.	-	-	-	-	-	-	-	-	-	-	-	-
Alta.	-	-	-	-	-	-	-	-	-	-	-	-
B.C.	-	-	-	1	-	-	-	1	-	-	-	2
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	1	1	-	-	-	1	-	-	1	2

TABLE N.2 (Continued)

**DRUG-RELATED DEATHS<sup>1</sup>, ACCORDING TO EXTERNAL CAUSE<sup>2</sup>,  
BY SEX, CANADA AND PROVINCES, 1986 TO 1989**

**ACCIDENTAL POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICALS (Cont'd):**

Province	Sedatives and Hypnotics – Other											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	–	1986	1987	1988	1989
Nfld.	–	–	–	–	–	–	–	–	–	–	–	–
P.E.I.	–	–	–	–	–	1	–	–	–	1	–	–
N.S.	–	–	1	–	–	–	–	–	–	–	1	–
N.B.	1	–	–	–	–	–	–	–	1	–	–	–
Que.	1	–	–	1	–	–	1	–	1	–	1	1
Ont.	–	1	3	–	–	–	–	1	–	1	3	1
Man.	–	–	–	–	–	–	–	–	–	–	–	–
Sask.	–	–	–	–	–	1	–	–	–	1	–	–
Alta.	–	–	–	–	1	–	–	–	1	–	–	–
B.C.	–	1	1	3	1	–	–	–	1	1	1	3
Yukon	–	–	–	–	–	–	–	–	–	–	–	–
N.W.T.	–	–	–	–	–	–	–	–	–	–	–	–
Canada	2	2	5	4	2	2	1	1	4	4	6	5

Province	Psychotropic Agents – Antidepressants											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	–	–	–	–	–	–	–	1	–	–	–	1
P.E.I.	–	–	1	–	–	–	–	–	–	–	1	–
N.S.	–	–	–	–	–	–	–	–	–	–	–	–
N.B.	–	–	–	–	–	–	–	–	–	–	–	–
Que.	–	–	–	4	1	–	–	4	1	–	–	8
Ont.	1	3	–	4	1	1	4	5	2	4	4	9
Man.	–	–	–	–	–	1	–	–	–	1	–	–
Sask.	1	–	–	–	–	2	–	1	1	2	–	1
Alta.	–	1	1	1	–	–	–	1	–	1	1	2
B.C.	2	3	2	3	3	7	3	1	5	10	5	4
Yukon	–	–	1	–	–	–	–	–	–	–	1	–
N.W.T.	–	–	–	–	–	–	1	–	–	–	1	–
Canada	4	7	5	12	5	11	8	13	9	18	13	25

Province	Psychotropic Agents – Phenothiazine Tranquillizers											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	–	–	–	–	–	–	–	–	–	–	–	–
P.E.I.	–	–	–	–	–	–	–	–	–	–	–	–
N.S.	–	–	–	–	–	–	–	–	–	–	–	–
N.B.	–	–	–	–	–	–	–	–	–	–	–	–
Que.	–	–	–	1	–	–	–	–	–	–	–	1
Ont.	–	2	–	–	–	–	–	2	–	2	–	2
Man.	–	–	–	–	–	–	–	–	–	–	–	–
Sask.	–	1	–	–	–	–	–	–	–	1	–	–
Alta.	–	–	–	–	–	–	–	–	–	–	–	–
B.C.	–	–	–	–	–	–	–	–	–	–	–	–
Yukon	–	–	–	–	–	–	–	–	–	–	–	–
N.W.T.	–	–	–	–	–	–	–	–	–	–	–	–
Canada	–	3	–	1	–	–	–	2	–	3	–	3



TABLE N.2 (Continued)

## DRUG-RELATED DEATHS<sup>1</sup>, ACCORDING TO EXTERNAL CAUSE<sup>2</sup>, BY SEX, CANADA AND PROVINCES, 1986 TO 1989

### ACCIDENTAL POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICALS (Cont'd):

Province	Psychotropic Agents – Benzodiazepine Tranquillizers											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	—	—	—	—	—	—	—	—	—	—	—	—
P.E.I.	—	—	—	—	—	—	—	—	—	—	—	—
N.S.	—	—	1	—	—	—	—	—	—	—	1	—
N.B.	—	2	—	—	—	—	—	1	—	2	—	1
Que.	2	1	1	1	—	—	—	—	2	1	1	1
Ont.	1	2	1	2	1	—	1	1	2	2	2	3
Man.	—	—	—	—	—	—	—	—	—	—	—	—
Sask.	—	—	—	—	—	—	—	2	—	—	—	2
Alta.	—	—	—	—	—	—	—	1	—	—	—	1
B.C.	1	—	1	2	—	—	—	—	1	—	1	2
Yukon	—	—	—	—	—	—	—	—	—	—	—	—
N.W.T.	—	—	—	—	—	—	—	—	—	—	—	—
Canada	4	5	4	5	1	—	1	5	5	5	5	10

Province	Psychotropic Agents – Other Tranquillizers and Psychotropic Agents											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	—	1	—	—	—	—	—	—	—	1	—	—
P.E.I.	—	—	—	—	—	—	—	—	—	—	—	—
N.S.	—	—	—	—	—	—	—	—	—	—	—	—
N.B.	1	—	—	—	—	—	—	—	1	—	—	—
Que.	—	—	—	—	—	—	—	—	—	—	—	—
Ont.	1	1	1	—	1	1	—	—	2	2	1	—
Man.	—	—	—	—	—	—	—	—	—	—	—	—
Sask.	—	—	—	—	—	—	—	—	—	—	—	—
Alta.	—	—	—	—	—	—	—	—	—	—	—	—
B.C.	—	—	—	1	—	—	1	—	—	—	1	1
Yukon	—	—	—	—	—	—	—	—	—	—	—	—
N.W.T.	—	—	—	—	—	—	—	—	—	—	—	—
Canada	2	2	1	1	1	1	1	—	3	3	2	1

### SUICIDE AND SELF-INFLICTED INJURY:

Province	Poisoning by – Analgesics, Antipyretics and Antirheumatics											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	—	—	—	—	—	—	—	—	—	—	—	—
P.E.I.	—	1	—	—	—	—	—	—	—	1	—	—
N.S.	1	1	—	3	1	1	—	—	2	2	—	3
N.B.	—	—	—	—	—	—	—	—	—	—	—	—
Que.	6	5	4	2	8	7	2	4	14	12	6	6
Ont.	15	12	10	13	14	14	16	14	29	26	26	27
Man.	1	—	3	—	3	1	—	2	4	1	3	2
Sask.	3	1	—	1	2	—	2	—	5	1	2	1
Alta.	5	5	—	—	7	5	2	6	12	10	2	6
B.C.	7	8	3	5	6	9	4	4	13	17	7	9
Yukon	—	—	—	—	—	—	—	—	—	—	—	—
N.W.T.	—	—	—	—	—	—	1	1	—	—	1	1
Canada	38	33	20	24	41	37	27	31	79	70	47	55

TABLE N.2 (Continued)

**DRUG-RELATED DEATHS<sup>1</sup>, ACCORDING TO EXTERNAL CAUSE<sup>2</sup>, BY SEX, CANADA AND PROVINCES, 1986 TO 1989**

**SUICIDE AND SELF-INFLICTED INJURY (Cont'd):**

Province	Poisoning by Sedatives and Hypnotics – Barbiturates											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	1	-	-	-	-	-	-	-	1	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	2	-	-	-	-	-	-	-	2	-
N.B.	1	1	-	-	-	-	-	-	1	1	-	-
Que.	-	1	1	1	4	5	5	2	4	6	6	3
Ont.	7	4	5	5	7	10	4	6	14	14	9	11
Man.	-	1	1	1	2	-	-	-	2	1	1	1
Sask.	1	-	-	-	-	-	-	-	1	-	-	-
Alta.	-	1	1	-	1	1	1	-	1	2	2	-
B.C.	-	4	3	2	1	2	2	5	1	6	5	7
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	9	13	13	9	15	18	12	13	24	31	25	22

Province	Poisoning by Sedatives and Hypnotics – Other											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	-	-	-	-	-	-	-	-	-	-
P.E.I.	-	-	-	-	-	-	-	-	-	-	-	-
N.S.	-	-	-	1	-	-	-	-	-	-	-	1
N.B.	-	1	-	-	-	-	-	-	-	1	-	-
Que.	-	5	3	1	1	1	1	-	1	6	4	1
Ont.	3	1	3	2	3	3	4	3	6	4	7	5
Man.	-	-	-	-	1	-	-	-	1	-	-	-
Sask.	-	-	1	-	2	1	1	-	2	1	2	-
Alta.	1	2	-	-	-	1	1	1	1	3	1	1
B.C.	1	-	-	1	3	2	1	-	4	2	1	1
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	5	9	7	5	10	8	8	4	15	17	15	9

Province	Poisoning by Psychotropic Agents – Tranquillizers and Other Psychotropic Agents											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	-	-	1	1	1	-	-	-	1	-	1	1
P.E.I.	-	1	-	1	-	-	1	-	-	1	1	1
N.S.	2	1	4	4	2	2	5	3	4	3	9	7
N.B.	1	-	-	-	1	1	-	-	2	1	-	-
Que.	9	18	10	3	20	19	15	7	29	37	25	10
Ont.	22	22	26	23	25	24	23	33	47	46	49	56
Man.	1	3	2	1	1	3	3	5	2	6	5	6
Sask.	2	1	1	1	5	5	4	4	7	6	5	5
Alta.	13	4	12	5	8	5	12	8	21	9	24	13
B.C.	8	11	6	11	9	12	12	11	17	23	18	22
Yukon	-	-	-	-	-	-	-	-	-	-	-	-
N.W.T.	-	-	-	-	-	-	-	-	-	-	-	-
Canada	58	61	62	50	72	71	75	71	130	132	137	121

TABLE N.2 (Continued)

**DRUG-RELATED DEATHS<sup>1</sup>, ACCORDING TO EXTERNAL CAUSE<sup>2</sup>,  
BY SEX, CANADA AND PROVINCES, 1986 TO 1989**
**INJURY UNDETERMINED, ACCIDENTALLY OR PURPOSELY INFLICTED:**

Province	Poisoning by – Analgesics, Antipyretics and Antirheumatics											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	—	2	—	—	—	—	—	—	—	2	—	—
P.E.I.	—	—	—	—	—	—	—	—	—	—	—	—
N.S.	—	—	—	—	—	1	—	1	—	1	—	1
N.B.	—	—	—	—	—	—	—	—	—	—	—	—
Que.	3	5	4	2	4	3	1	1	7	8	5	3
Ont.	2	—	1	2	3	3	2	2	5	3	3	4
Man.	—	3	—	—	—	—	2	—	—	3	2	—
Sask.	1	2	—	—	—	1	—	2	1	3	—	2
Alta.	8	8	8	4	6	8	6	4	14	16	14	8
B.C.	5	2	—	1	—	2	—	—	5	4	—	1
Yukon	—	—	—	—	—	—	—	—	—	—	—	—
N.W.T.	—	—	—	—	—	—	—	—	—	—	—	—
Canada	19	22	13	9	13	18	11	10	32	40	24	19

Province	Poisoning by Sedatives and Hypnotics – Barbiturates											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	—	—	—	—	—	—	—	—	—	—	—	—
P.E.I.	—	—	—	—	—	—	—	—	—	—	—	—
N.S.	—	—	—	—	—	—	—	—	—	—	—	—
N.B.	—	—	—	—	—	—	—	—	—	—	—	—
Que.	3	2	—	—	1	1	—	—	4	3	—	—
Ont.	—	2	1	—	1	2	—	2	1	4	1	2
Man.	—	—	—	—	—	—	—	—	—	—	—	—
Sask.	—	—	—	—	—	—	—	—	—	—	—	—
Alta.	1	—	—	1	—	—	—	1	1	—	—	2
B.C.	—	—	—	—	—	—	—	—	—	—	—	—
Yukon	—	—	—	—	—	—	—	—	—	—	—	—
N.W.T.	—	—	—	—	—	—	—	—	—	—	—	—
Canada	4	4	1	1	2	3	—	3	6	7	1	4

Province	Poisoning by Sedatives and Hypnotics – Other											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	—	—	—	—	—	—	—	—	—	—	—	—
P.E.I.	—	—	—	—	—	—	—	—	—	—	—	—
N.S.	—	—	—	—	—	—	1	—	—	—	1	—
N.B.	—	—	—	—	—	—	—	—	—	—	—	—
Que.	1	1	1	—	—	1	—	—	1	2	1	—
Ont.	—	—	1	2	—	—	1	3	—	—	2	5
Man.	—	—	—	—	—	—	—	—	—	—	—	—
Sask.	—	—	—	—	—	—	—	—	—	—	—	—
Alta.	—	—	—	—	—	—	—	1	—	—	—	1
B.C.	—	—	—	—	—	—	—	—	—	—	—	—
Yukon	—	—	—	—	—	—	—	—	—	—	—	—
N.W.T.	—	—	—	—	—	—	—	—	—	—	—	—
Canada	1	1	2	2	—	1	2	4	1	2	4	6



TABLE N.2 (Concluded)

**DRUG-RELATED DEATHS<sup>1</sup>, ACCORDING TO EXTERNAL CAUSE<sup>2</sup>,  
BY SEX, CANADA AND PROVINCES, 1986 TO 1989**

INJURY UNDETERMINED, ACCIDENTALLY OR PURPOSELY INFLICTED (Cont'd):

Province	Poisoning by Psychotropic Agents – Tranquillizers and Other Psychotropic Agents											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	–	–	–	–	–	–	–	–	–	–	–	–
P.E.I.	–	–	–	–	–	–	–	–	–	–	–	–
N.S.	1	–	–	1	–	1	1	–	1	1	1	1
N.B.	–	–	1	–	–	–	–	–	–	–	1	–
Que.	3	3	4	2	3	3	2	1	6	6	6	3
Ont.	–	3	2	3	1	2	1	1	1	5	3	4
Man.	–	–	–	–	–	–	–	–	–	–	–	–
Sask.	–	2	–	–	1	2	1	1	1	4	1	1
Alta.	3	8	1	1	4	4	2	4	7	12	3	5
B.C.	1	–	–	–	1	–	–	–	2	–	–	–
Yukon	–	–	–	–	–	–	–	–	–	–	–	–
N.W.T.	–	–	–	–	–	–	–	–	–	–	–	–
Canada	8	16	8	7	10	12	7	7	18	28	15	14

**TOTAL EXTERNAL CAUSES:**

Province	Total											
	Male				Female				Total			
	1986	1987	1988	1989	1986	1987	1988	1989	1986	1987	1988	1989
Nfld.	–	5	1	1	1	1	–	1	1	6	1	2
P.E.I.	–	2	1	1	–	1	1	–	–	3	2	1
N.S.	5	2	9	10	3	6	7	4	8	8	16	14
N.B.	4	4	1	–	1	1	–	1	5	5	1	1
Que.	30	45	33	22	42	40	31	22	72	85	64	44
Ont.	63	71	72	76	69	68	64	78	132	139	136	154
Man.	2	8	6	3	8	5	6	8	10	13	12	11
Sask.	9	9	4	3	11	14	10	10	20	23	14	13
Alta.	33	29	23	14	28	24	26	28	61	53	49	42
B.C.	45	39	33	52	33	52	38	33	78	91	71	85
Yukon	–	–	1	–	–	1	–	–	–	1	1	–
N.W.T.	–	–	–	–	1	–	2	1	1	–	2	1
Canada	191	214	184	182	197	213	185	186	388	427	369	368

<sup>1</sup> For medical conditions included under each diagnostic category see Technical Notes, Appendix B.

<sup>2</sup> The data presented above are not additive with those in Table N.1 as there is some overlap in deaths reported, due to the different method used in each case, for classifying the data within categories. Although in both cases 'underlying cause of death' is the main criterion for assignment to a category, in Table N.1 deaths are classified according to nature of injury, whereas in Table N.2, external cause is employed.

Sources: Statistics Canada, Causes of Death – Vital Statistics Volume IV 1986 (Ottawa: Statistics Canada, Catalogue No. 84–203, 1988); Statistics Canada, Health Reports Supplement, Volume 1, No. 1, 1989 – Causes of Death, 1987 (Ottawa: Statistics Canada, Catalogue No. 82–003S, 1989); Statistics Canada, Health Reports, Supplement No. 11, 1990, Volume 2, No. 1 – Causes of Death, 1988 (Ottawa: Statistics Canada, Catalogue 82–003S, 1990); Statistics Canada, Health Reports, Supplement No. 11, 1990, Volume 3, No. 1 – Causes of Death, 1989 (Ottawa: Statistics Canada, Catalogue 82–003S, 1991).



**Chapter 0** \_\_\_\_\_  
**NATIONAL SMOKING SURVEY**

## Chapter O

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# NATIONAL SMOKING SURVEY

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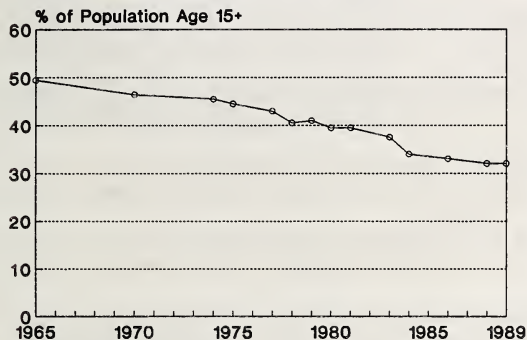
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## O. NATIONAL SMOKING SURVEY

### Highlights

**Figure O.1**  
Percentage of Population Who are Current Smokers, Age 15 and Over, Canada, 1965 to 1989

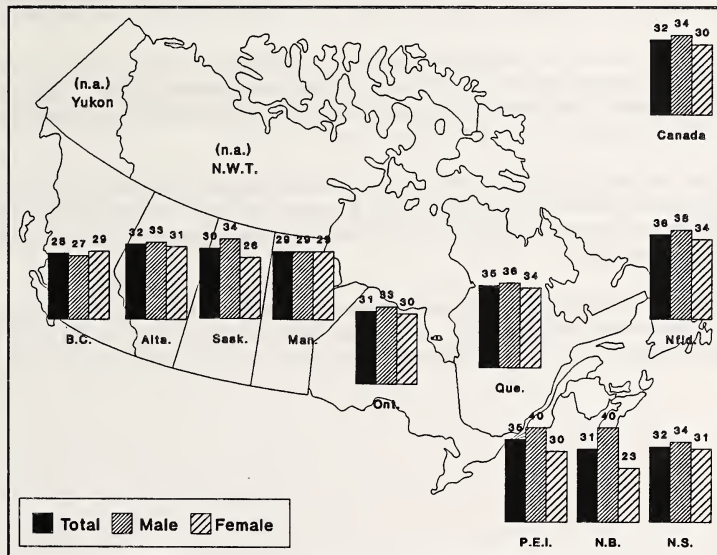


According to various national surveys<sup>1</sup>, there was a steady decline in the percentage of current<sup>2</sup> smokers in Canada since 1965 (Figure O.1, Table O.1). Approximately 50% of the population over the age of 15 were found to be smoking in 1965, compared to 32% in 1989 (Table O.1).

In general, the prevalence of smoking in 1989 appears to be highest in the eastern provinces. With 36%, Newfoundland has the greatest proportion of smokers, followed by Prince Edward Island and Quebec with 35% each (Figure O.2, Table O.2).

**Figure O.2**  
Percentage of Population Who are Current Smokers, Age 15 and Over, Canada and Provinces, 1989

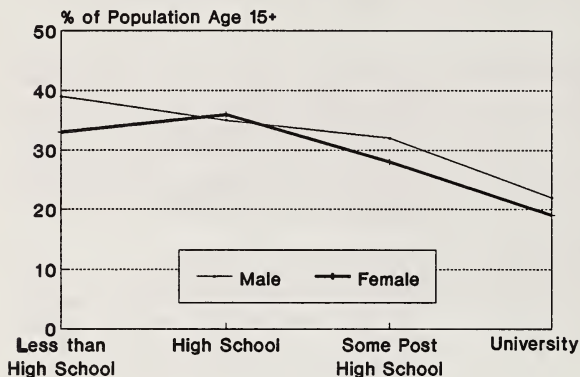
For the country as a whole, there is a larger proportion of male smokers (34%) versus female smokers (30%). The greatest gender difference is found in New Brunswick where 40% of men and 23% of women smoke (Figure O.2, Table O.2). In all provinces, except Manitoba and British Columbia, the percentage of male smokers is greater than the percentage of female smokers (Figure O.2, Table O.2).



<sup>1</sup> See note on Table O.1 for explanation of how some surveys were adjusted to account for proxy data.

<sup>2</sup> Current smokers include regular (those who usually smoke every day) and occasional (those who do not usually smoke every day) smokers.

**Figure O.3**  
**Percentage of Population Who are Current Smokers,**  
**by Education, Age 15 and Over, Canada, 1989**



Of the regular smokers, the largest proportion (64%) consume 11-15 cigarettes per day, followed by those who smoke 1-10 cigarettes (26%). A much smaller proportion (10%) of the regular smokers consume 26 cigarettes or more daily (Table O.3). Smoking is most common among those aged 20-24. Women aged 20-24 (38%) and men aged 25-44 (37%) are most likely to smoke (Table O.3). Older adults aged 65 and over, in particular women (16%), are the least likely to smoke (Table O.3).

The prevalence of smoking appears to relate directly to the level of education, regardless of age and sex (Figure O.3, Table O.4). Among respondents with less than a high school education, 36% are current smokers, compared to 20% of those with a university degree.

In 1989, an estimated 36,045 Canadians died as a result of smoking-related health problems. Although there was no appreciable change from the previous year smoking attributable deaths have been slowly increasing since 1984.

Table O.6 shows the gradual decline since 1975 in the total number of workers in the tobacco industry. There were 4,935 tobacco manufacturers in 1988, compared to 8,357 in 1975 (a drop of 41%). The decline in the number of leaf tobacco processors for the same period was even more dramatic: from 1,329 in 1975 to 566 in 1988 (a drop of 51%) (Table O.6).

Since reaching the high in 1986, total salaries and wages in the industry have been declining. Wages of processors totalled \$17,200,000 in 1988, a drop of 5.0% from a year ago and 23% from 1986 (Table O.6). Salaries and wages of manufacturers totalled \$213,000,000 in 1988, compared to \$236,571,000 reached in 1986. (Table O.7).

Government revenue<sup>3</sup> from the sale of tobacco is presented in Table O.7. Tobacco revenue from all levels of government increased 12% in 1989-90 from \$4,032.5 million to \$4,529.6 million. Receipts as a percentage of total government revenue increased from 1.7% in 1988-89 to 1.8% in 1989-90 (Table O.7)

<sup>3</sup> Includes only revenue derived from the federal excise tax, excise duty and the specific tobacco taxes in each province.



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Health and Welfare Canada (1990), National Alcohol and Other Drugs Survey (1989), Edited by Marc Eliany, Dr. Norman Giesbrecht, Dr. Mike Nelson, Dr. Barry Wellman and Scot Wortley.

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Statistics Canada, Health Reports, Supplement No.11, Volume 3, No.1, 1991 - Causes of Death, 1989 (Ottawa: Statistics Canada, Catalogue No. 82-003S, 1991).

Statistics Canada, Tobacco Products Industries 1981, 1982, 1983, and 1984 (Ottawa: Statistics Canada, Catalogue No. 32-225, 1983, 1984, 1985 and 1986 respectively).

Statistics Canada, Beverage and Tobacco Products industries 1985, 1986, 1987 and 1988 (Ottawa: Statistics Canada, Catalogue No. 32-225, 1988, 1989, 1990 and 1991).

Additional information was obtained from Statistics Canada-International Trade Division.

TABLE O.1

## ADJUSTED PREVALENCE OF CURRENT<sup>1</sup> CIGARETTE SMOKERS, AGE 15 AND OVER, CANADA, 1965 TO 1989

Year	Smokers	Source
1965	49.5%	Labour Force Survey supplement, adjusted
1970	46.5	Labour Force Survey supplement, adjusted
1974	45.5	Labour Force Survey supplement, adjusted
1975	44.5	Labour Force Survey supplement, adjusted
1977	43.0	Labour Force Survey supplement, adjusted
1978	40.5	Canada Health Survey self-completed questionnaire
1979	41.0	Labour Force Survey supplement, adjusted
1981	39.5	Labour Force Survey supplement, non-proxy only
1983	37.5	Labour Force Survey supplement, non-proxy only
1985	34.0	General Social Survey telephone interview
1986	33.0	Labour Force Survey supplement, non-proxy only
1988	32.0	Campbell Survey on Well-being in Canada
1989	32.0	National Alcohol and Other Drugs Survey

<sup>1</sup> Current cigarette smokers are regular (daily) smokers plus occasional smokers.

Note: Estimates for 1981, 1983, and 1986 are based on non-proxy data only from the labour Force Survey supplements (The Smoking Habits of Canadians series). Estimates from this source prior to 1981 have been adjusted to account for proxy data, since it was not possible to identify the proxy responses and remove them from the estimate. The adjustment is based on making systematic comparisons for individual age and sex groups between two estimates: (a) those based on self-reports only from the 1981-86 Labour Force Survey supplements, and (b) those based on all data (self- and proxy reports) from these same sources. The average discrepancy for these three years, for individual age and sex groups, was calculated and applied to the published estimates for the Labour Force survey supplements of 1965 through 1979. For further details on this adjustment, see: Stephens T. A Critical Review of Canadian Survey Data on Tobacco Use, Attitudes and Knowledge. Ottawa: Tobacco Programs Unit, 1988. No adjustments were made to the published data from the other sources as these were all based exclusively on self-reports.

Sources: Health and Welfare Canada, Canadians and Smoking: An Update (Ottawa: Health and Welfare Canada, Health Services and Promotion Branch, 1991).

TABLE O.2

TYPE OF SMOKER, BY PROVINCE AND SEX, AGE 15 AND OVER,  
CANADA 1989

Province	Population Estimate (000's)	Type of Cigarette Smoker		
		Never	Former	Current
Nfld.	437	37%	27%	36%
Male	221	28	34	38
Female	216	47	19	34
P.E.I.	98	41	24	35
Male	48	30	31	40
Female	50	52	18	30
N.S.	692	38	29	32
Male	338	33	33	34
Female	354	43	26	31
N.B.	552	42	26	31
Male	269	32	28	40
Female	283	52	25	23
Que.	5,238	37	28	35
Male	2,541	30	33	36
Female	2,697	44	23	34
Ont.	7,485	47	22	31
Male	3,653	42	26	33
Female	3,832	51	19	30
Man.	831	41	30	29
Male	406	36	34	29
Female	425	46	26	29
Sask.	748	44	26	30
Male	370	34	32	34
Female	378	53	21	26
Alta.	1,827	41	27	32
Male	911	36	31	33
Female	916	46	23	31
B.C.	2,389	43	29	28
Male	1,174	39	34	27
Female	1,215	46	25	29
<b>Canada</b>	<b>20,285</b>	<b>43</b>	<b>26</b>	<b>32</b>
<b>Male</b>	<b>9,920</b>	<b>37</b>	<b>30</b>	<b>34</b>
<b>Female</b>	<b>10,365</b>	<b>48</b>	<b>22</b>	<b>30</b>

Source: National Alcohol and Other Drugs Survey.

**TABLE O.3**

**TYPE OF SMOKER AND AMOUNT SMOKED DAILY,  
BY AGE AND SEX, CANADA 1989**

Age	Population Estimate (000's)	Type of Cigarette Smoker				Cigarettes Smoked Daily by Regular Smokers <sup>1</sup>		
		Never	Former	Occas.	Regular	1-10	11-25	26+
15+	20,285	43%	26%	1%	31%	26%	65%	10%
Male	9,920	37	30	1	33	21	64	12
Female	10,365	48	22	1	29	31	62	7
15-19	1,866	65	12	--	21	52	52	--
Male	956	66	12	--	21	43	57	--
Female	910	64	12	--	22	59	41	--
20-24	2,034	48	15	--	37	30	65	--
Male	1,027	51	12	--	36	22	67	8
Female	1,007	44	18	--	38	34	63	--
25-44	8,632	38	25	--	35	23	69	9
Male	4,289	35	27	--	37	19	68	14
Female	4,343	41	24	--	34	29	68	--
45-64	5,035	37	30	--	32	22	66	13
Male	2,486	28	38	--	34	21	62	18
Female	2,549	45	23	--	30	27	67	7
65+	2,719	46	35	--	18	33	56	0
Male	1,162	24	54	--	21	29	57	--
Female	1,557	63	21	--	16	38	56	--

<sup>1</sup> The figures represent percentages of the regular smokers.

Note: -- indicates unreliable estimate due to small sample.

Source: National Alcohol and Other Drugs Survey.



TABLE O.4

TYPE OF SMOKER, BY EDUCATION, AGE AND SEX, CANADA 1989

Province	Population Estimate (000's)	Never Smoked	Former Smokers	Current Smokers
<b>Total</b>	20,285	42%	26%	32%
<b>Less Than High School</b>	6,744	39	26	36
Age 15-34	2,221	44	16	40
35-54	1,869	29	26	46
55+	2,654	42	34	25
Male	3,349	30	32	39
Female	3,395	48	19	33
<b>High School Completed</b>	5,668	39	25	36
Age 15-34	2,580	42	19	38
35-54	1,947	34	29	37
55+	1,141	42	30	27
Male	2,597	36	29	35
Female	3,071	43	21	36
<b>Some Post-High School</b>	4,764	44	26	30
Age 15-34	2,598	52	19	29
35-54	1,479	34	34	32
55+	688	39	36	25
Male	2,271	42	27	32
Female	2,494	47	25	28
<b>University Degree</b>	2,865	51	29	20
Age 15-34	1,103	61	19	20
35-54	1,318	46	32	22
55+	444	40	44	16
Male	1,606	45	34	22
Female	1,259	59	23	19

Source: National Alcohol and Other Drugs Survey.

TABLE O.5

ESTIMATED NUMBER OF DEATHS<sup>1</sup> INDIRECTLY DUE TO SMOKING, CANADA AND PROVINCES, 1984 TO 1989

Province	Number of Deaths <sup>2</sup>					
	1984	1985	1986	1987	1988	1989
Nfld.	655	685	680	690	650	700
P.E.I.	225	230	235	220	210	205
N.S.	1,335	1,380	1,355	1,315	1,385	1,390
N.B.	1,045	1,015	1,035	1,050	1,015	1,005
Que.	8,760	8,850	9,115	9,190	9,315	9,280
Ont.	13,065	13,375	13,365	13,300	13,665	13,585
Man.	1,585	1,640	1,645	1,605	1,610	1,600
Sask.	1,425	1,480	1,480	1,440	1,515	1,435
Alta.	2,295	2,280	2,390	2,420	2,535	2,520
B.C.	4,130	4,065	4,070	4,095	4,185	4,285
Yukon	15	15	15	10	20	15
N.W.T.	20	20	25	20	25	20
Canada <sup>3</sup>	34,550	35,030	35,410	35,360	36,135	36,045

Province	Rates <sup>4</sup> Per 100,000 Population					
	1984	1985	1986	1987	1988	1989
Nfld.	114.5	119.6	119.4	121.6	114.7	122.9
P.E.I.	178.7	181.4	184.6	172.4	161.8	159.0
N.S.	154.3	158.3	155.3	149.4	156.7	156.6
N.B.	147.5	143.2	146.0	147.7	141.8	140.1
Que.	134.9	135.8	139.4	139.4	140.3	138.7
Ont.	146.8	148.5	146.7	143.5	144.9	142.0
Man.	150.0	154.3	153.7	148.9	148.5	147.5
Sask.	142.3	146.7	146.6	141.8	150.0	142.6
Alta.	98.1	97.0	100.6	101.7	105.6	103.7
B.C.	145.0	141.7	140.9	140.0	140.3	140.2
Yukon	61.5	68.9	63.0	45.5	88.1	64.6
N.W.T.	43.3	38.3	46.9	40.6	48.1	40.1
Canada <sup>3</sup>	138.3	139.2	139.7	138.0	139.4	137.5

Province	Rates <sup>4</sup> Per 100,000 Population Aged 20+					
	1984	1985	1986	1987	1988	1989
Nfld.	184.1	189.4	186.8	187.9	175.1	184.9
P.E.I.	266.2	268.0	270.5	251.1	234.8	229.5
N.S.	223.8	227.1	220.9	211.1	220.3	219.3
N.B.	219.1	210.3	212.5	213.3	203.4	199.7
Que.	190.1	189.6	193.1	192.1	192.5	189.7
Ont.	207.1	207.8	204.1	198.9	200.3	195.7
Man.	217.0	221.7	220.0	212.4	211.6	209.5
Sask.	211.7	216.9	216.0	208.5	220.3	208.9
Alta.	144.5	142.1	146.9	148.2	153.7	150.4
B.C.	202.5	196.8	194.9	193.2	193.0	192.1
Yukon	93.4	103.8	94.3	67.3	132.0	97.0
N.W.T.	77.0	67.5	81.7	71.2	83.6	68.6
Canada <sup>3</sup>	197.4	197.1	196.6	193.3	194.7	191.3

TABLE O.5 (Concluded)

## ESTIMATED NUMBER OF DEATHS<sup>1</sup> INDIRECTLY DUE TO SMOKING, CANADA AND PROVINCES, 1983 TO 1988

<sup>1</sup> The number of deaths indirectly due to smoking have been estimated from the number of deaths due to chronic bronchitis, asthma, emphysema and 30% of all deaths due to neoplasms, stroke, hypertension and heart disease. For disease codes included under each cause of death see Technical Notes.

<sup>2</sup> Figures have been rounded to the nearest multiple of 5.

<sup>3</sup> Due to rounding, components will not necessarily add to totals.

<sup>4</sup> Rates were calculated on actual (unrounded) figures.

Sources: Statistics Canada, Causes of Death – Vital Statistics Volume IV 1984, 1985 and 1986 (Ottawa: Statistics Canada, Catalogue No. 84–203, 1986, 1987 and 1988 respectively); Statistics Canada, Health Reports, Supplement, Volume 1, No. 1, 1989 – Causes of Death, 1987 (Ottawa: Statistics Canada, Catalogue No. 82–003S, 1989); Statistics Canada, Health Reports, Supplement No. 11, Volume 2, No. 1, 1990 – Causes of Death, 1988 (Ottawa: Statistics Canada, Catalogue No. 82–003S, 1990); Health Reports, Supplement No. 11, Volume 3, No. 1, 1991 – Causes of Death, 1989 (Ottawa: Statistics Canada, Catalogue No. 82–003S, 1991).

**TABLE O.6**

**TOTAL WORKERS, AND SALARIES AND WAGES IN TOBACCO PROCESSING, MANUFACTURING AND RELATED ACTIVITIES<sup>1</sup>, CANADA, 1973 TO 1988**

Year	Number of Workers		
	Leaf Tobacco Processors	Tobacco Products Manufacturers	Total
1975	1,329	8,357	9,686
1976	1,009	8,076	9,085
1977	838	9,085	9,923
1978	946	7,832	8,778
1979	1,000	7,690	8,690
1980	877	7,645	8,522
1981	972	7,772	8,744
1982	921	7,790	8,711
1983	802	7,308	8,110
1984	756	6,870	7,626
1985	551	6,546	7,097
1986	838	6,151	6,989
1987	561	5,387	5,948
1988	566	4,935	5,501

Year	Salaries and Wages		
	Leaf Tobacco Processors	Tobacco Products Manufacturers	Total
1975	\$11,137,000	\$106,195,000	\$117,332,000
1976	10,355,000	115,389,000	125,744,000
1977	9,446,000	129,530,000	138,976,000
1978	11,843,000	131,438,000	143,281,000
1979	13,496,000	140,948,000	154,444,000
1980	12,876,000	157,097,000	169,973,000
1981	17,049,000	185,131,000	202,180,000
1982	18,878,000	202,769,000	221,647,000
1983	17,597,000	217,999,000	235,596,000
1984	18,760,000	221,162,000	239,922,000
1985	14,420,000	235,259,000	249,679,000
1986	21,332,000	236,571,000	257,903,000
1987	16,399,000	226,266,000	242,665,000
1988	17,200,000	213,000,000	230,200,000

<sup>1</sup> Includes administration, sale, etc.

Sources: Statistics Canada, *Tobacco Products Industries 1981, 1982, 1983, 1984* (Ottawa: Statistics Canada, Catalogue No. 32-225, 1983, 1984, 1985 and 1986 respectively). Statistics Canada, *Beverage + Tobacco Products Industries 1985, 1986, 1987 and 1988* (Ottawa: Statistics Canada, Catalogue No. 32-225, 1988, 1989, 1990 and 1991).



TABLE O.7

## GOVERNMENT REVENUE<sup>1</sup> DERIVED FROM THE SALE OF TOBACCO, CANADA AND PROVINCES, 1985-86 TO 1989-90

Level of Government	Millions of Dollars				
	1985-86	1986-87	1987-88	1988-89	1989-90
<b>Federal Revenue<sup>2</sup></b>	<b>1,172.0</b>	<b>1,660.0</b>	<b>1,819.0</b>	<b>1,727.0</b>	<b>2,095.0</b>
<b>Provincial/Territorial</b>					
Nfld.	38.9	41.0	39.8	40.9	50.0
P.E.I.	4.9	8.9	10.2	12.7	12.8
N.S.	55.7	73.4	85.5	82.8	80.0
N.B.	54.4	60.5	62.8	63.0	75.0
Que.	640.5	692.2	647.9	664.2	666.3
Ont.	603.0	611.3	638.8	750.0	770.0
Man.	77.8	91.8	94.0	94.4	116.9
Sask.	70.6	78.8	90.0	99.3	107.0
Alta.	100.4	110.3	183.1	212.0	235.0
B.C.	188.6	212.2	228.0	280.5	312.0
Yukon	1.2	2.5	2.6	0.8	2.6
N.W.T.	4.4	4.7	5.4	4.9	7.1
<b>Total Provincial Revenue</b>	<b>1,840.5</b>	<b>1,987.7</b>	<b>2,088.1</b>	<b>2,305.5</b>	<b>2,434.6</b>
<b>All Levels of Government</b>	<b>3,012.5</b>	<b>3,647.7</b>	<b>3,907.1</b>	<b>4,032.5</b>	<b>4,529.6</b>

Level of Government	Tobacco Revenue as a Percentage of Total Government Revenue				
	1985-86	1986-87	1987-88	1988-89	1989-90
<b>Federal Revenue</b>	<b>1.4%</b>	<b>1.8%</b>	<b>1.8%</b>	<b>1.6%</b>	<b>1.8%</b>
<b>Provincial/Territorial</b>					
Nfld.	1.7	1.7	1.5	1.4	1.5
P.E.I.	1.0	1.7	1.8	2.0	1.9
N.S.	1.9	2.3	2.5	2.2	2.0
N.B.	1.9	2.1	2.0	1.8	2.0
Que.	2.4	2.5	2.1	2.0	1.9
Ont.	2.1	1.9	1.8	1.8	1.7
Man.	1.9	2.1	1.8	1.7	2.0
Sask.	1.8	2.1	2.0	2.1	2.1
Alta.	0.7	1.0	1.4	1.7	1.8
B.C.	1.8	1.9	1.8	2.1	2.0
Yukon	0.5	0.9	0.9	0.3	0.8
N.W.T.	0.6	0.6	0.7	0.5	0.7
<b>Total Provincial Revenue</b>	<b>1.9%</b>	<b>2.0%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>1.8%</b>
<b>All Levels of Government</b>	<b>1.7%</b>	<b>1.9%</b>	<b>1.8%</b>	<b>1.7%</b>	<b>1.8%</b>

<sup>1</sup> Includes only revenue derived from the federal excise tax, excise duty and the specific tobacco taxes in each province.

<sup>2</sup> Federal tobacco revenue for 1990-91 is estimated to be 2,382 million and 4,115 million for 1991-92. Corresponding data for the provinces was not available.

Source: Derived from data obtained from the Public Institutions Division, Statistics Canada.

TABLE O.8

## VALUE OF IMPORTS AND EXPORTS OF TOBACCO FROM ALL COUNTRIES, CANADA, 1968 TO 1989

Year	Imports <sup>1</sup>	Exports <sup>2</sup>
1968	\$9,868,000	\$57,467,000
1969	10,610,000	62,856,000
1970	9,884,000	56,446,000
1971	11,254,000	57,480,000
1972	10,763,000	59,172,000
1973	17,043,000	59,311,000
1974	19,355,000	75,520,000
1975	25,155,000	72,745,000
1976	21,054,000	68,997,000
1977	22,011,000	69,043,000
1978	26,335,000	104,825,000
1979	28,835,000	145,271,000
1980	57,179,000	82,358,000
1981	32,712,000	141,042,000
1982	50,596,000	133,457,000
1983	62,948,000	118,684,000
1984	42,291,000	123,615,000
1985	32,441,000	105,398,000
1986	34,727,000	137,332,000
1987	27,113,000	139,083,000
1988	28,081,000	102,868,000
1989	26,075,000	98,073,000
1990	26,875,000	115,069,000

<sup>1</sup> Includes bright flue-cured unstemmed tobacco, cigar leaf unstemmed tobacco, Turkish type unstemmed tobacco, other unspecified unmanufactured unstemmed tobacco, cigar leaf stemmed tobacco, other unspecified unmanufactured stemmed tobacco, pipe and cigarette smoking cut tobacco, cigars and similar products, cigarettes and other unspecified manufactures tobacco.

<sup>2</sup> Includes bright flue-cured unstemmed tobacco, other unspecified unmanufactured unstemmed tobacco, bright flue-cured stemmed tobacco, tobacco stems cutting scrap and waste, other unspecified unmanufactured stemmed tobacco and other unspecified manufactured cigarettes and tobacco.

Sources: For 1968 to 1981, these data originate from CANSIM which is the registered Trade Mark for Statistics Canada's machine - readable data base; for 1982 to 1985, Statistics Canada, Imports by commodities 1982, 1983, 1984 and 1985, monthly issues (Ottawa: Statistics Canada, Catalogue No. 65-007, from April, 1982 to March, 1986); Statistics Canada, Exports by Commodities 1982, 1983, 1984 and 1985, monthly issues (Ottawa: Statistics Canada, Catalogue No. 65-004, from April, 1982 to March, 1986).

Additional information was obtained from Statistics Canada - International trade Division.

**Appendix A** \_\_\_\_\_  
**POPULATION DATA**

# Appendix A

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## POPULATION DATA

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## APPENDIX A - Population Data

### Use of Rates

This monograph contains a number of tables involving the calculation of rates. Rates provide a crude method for comparing the occurrence of specified events between different regions or age groups. For example, how does 10 occurrences of an event in Prince Edward Island compare with the occurrence of 100 similar events in Ontario. On one level 10 times more events occurred in Ontario, however the population of Ontario is approximately 200 times greater than Prince Edward Island. Calculating the rate of this event would indicate that the occurrence of this event in Prince Edward Island is twenty times the occurrence in Ontario.

The other issue that has to be considered is the approximate group experiencing a given event. In many situations rates have been calculated using not only the total population but also other specified population groups (ie. population aged 15 and over). Use of specific groups is an attempt to determine the extent of a problem within the group that is primarily involved or at risk. In Table F.1 the rate of drinking and driving offences is calculated using both the total population and the population aged 16 and over. Although some offences involve persons under the age of sixteen, by far the largest proportion involve persons aged sixteen and over. As a result the calculation of rates using the population sixteen and over provides a better indication of the occurrence of an event in the population that is primarily involved.

Similarly, to obtain a better indication of the trend in alcohol consumption, the population aged 15 and over is used. In this case, although the legal drinking age is 18 or 19, surveys indicate that younger persons do consume alcohol. By using the population aged 15 and over it is hoped that the resulting per person estimate of absolute alcohol consumption will provide a closer approximation of the true alcohol consumption.

### Rate Calculation:

All rates calculated in this monograph are crude rates. No standardization has been attempted to remove the effects of differences in age structure between regions or changes that have evolved over time. In general all calculated rates are per 100,000 population.

$$\text{Crude rate} = \frac{\text{Number of events in region/age group } i \text{ at a given time}}{\text{Specified population of region/age group } i \text{ at that time}} \times 100,000$$

Rates for Canada and the provinces were calculated using population estimates produced by Statistics Canada. For calendar year data, June 1st population figures were used for calculating both per capita and age-sex specific rates. For fiscal year data, October 1st population figures were used, however, age-specific rates (ie. morbidity data) use June 1st population estimates. Since quarterly population data by age and sex are not readily available, these data were estimated.

The sources for these population data were as follows:

- (1) Statistics Canada, Population - Intercensal Annual Estimates of Population by Sex and Age for Canada and the Provinces 1976-1981 (Ottawa: Statistics Canada, Catalogue No.91-518, 1983).
- (2) Statistics Canada, Population - Intercensal Annual Estimates of Population by Sex and Age for Canada and the Provinces 1981-1986 (Ottawa: Statistics Canada, Catalogue No.91-518, 1988).
- (3) Statistics Canada, Postcensal Annual Estimates of Population by Marital Status, Age, Sex and Components of Growth for Canada, Provinces and Territories, June 1, 1987, 1988, 1989 and 1990 (Ottawa: Statistics Canada, Catalogue No. 91-210, 1985, 1986, 1987, 1988, 1989, 1990 and 1991 respectively).
- (4) Statistics Canada, Quarterly Estimates of Population for Canada, the Provinces and the Territories - October 1986 (Ottawa: Statistics Canada, Catalogue No. 91-001, February, 1987).
- (5) Statistics Canada, Quarterly Demographic Statistics, July-September 1987, July-September 1988, July-September 1989 (Ottawa: Statistics Canada, Catalogue No. 91-001, 1988, 1989, and 1990 respectively).

Using data sources (1) to (5) cited above, fiscal midyear population estimates (October 1st) for the population aged 15 and over (and 20 and over) were estimated assuming the proportion of individuals of a specified age-sex group relative to all ages, increased (or decreased) in a linear fashion from year to year.

The resulting midyear population estimates can be found in Appendix A, Tables A.6 through A.8.

APPENDIX A.1

ESTIMATED TOTAL POPULATION BY SEX, CANADA AND PROVINCES,  
AS OF JUNE 1ST, 1979 TO 1990

Province	Males (Thousands)											
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	284.7	285.2	285.7	284.6	286.9	287.0	286.3	284.4	283.7	283.3	283.9	285.7
P.E.I.	60.9	61.2	60.9	60.9	61.5	62.2	62.6	62.9	63.1	63.8	64.4	64.4
N.S.	418.4	419.2	419.6	420.3	423.6	426.9	429.8	430.6	433.1	435.1	435.8	437.8
N.B.	345.0	346.1	346.0	345.8	348.7	350.7	351.4	351.3	351.9	352.4	354.1	357.1
Que.	3,128.5	3,149.1	3,172.1	3,180.5	3,183.4	3,188.4	3,195.9	3,205.2	3,230.8	3,252.8	3,276.1	3,312.6
Ont.	4,197.2	4,225.2	4,246.6	4,282.3	4,326.7	4,375.1	4,423.9	4,473.5	4,553.6	4,634.8	4,705.0	4,785.0
Man.	508.9	506.6	506.5	509.9	515.8	520.3	524.6	528.0	532.1	534.9	534.3	537.4
Sask.	478.5	482.1	486.1	490.0	495.7	500.8	504.2	504.6	506.6	504.8	501.6	498.0
Alta.	1,045.8	1,092.1	1,143.0	1,179.2	1,188.2	1,184.9	1,186.7	1,198.8	1,198.4	1,206.5	1,217.5	1,237.2
B.C.	1,290.3	1,327.3	1,365.0	1,385.5	1,397.3	1,412.9	1,422.9	1,431.1	1,447.8	1,476.1	1,511.1	1,547.6
Yukon	11.8	11.8	12.2	12.6	12.0	12.1	12.3	12.3	12.7	13.2	13.2	13.6
N.W.T.	23.1	23.4	24.0	24.8	25.6	26.3	27.3	27.4	27.1	27.1	27.6	27.9
<b>Canada</b>	<b>11,793.1</b>	<b>11,929.3</b>	<b>12,067.6</b>	<b>12,176.3</b>	<b>12,265.4</b>	<b>12,347.6</b>	<b>12,427.8</b>	<b>12,508.1</b>	<b>12,641.0</b>	<b>12,784.6</b>	<b>12,924.6</b>	<b>13,104.2</b>

Province	Females (Thousands)											
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	278.8	280.4	282.0	281.6	284.5	285.3	285.2	284.0	284.5	284.9	286.1	287.3
P.E.I.	61.1	61.6	61.6	61.5	62.2	62.9	63.4	63.7	64.2	65.0	65.8	65.9
N.S.	423.4	425.9	427.9	429.2	433.4	437.5	441.2	442.6	445.8	448.8	451.1	453.8
N.B.	347.0	349.3	350.4	350.9	354.5	357.2	358.6	359.1	360.4	362.0	364.4	366.8
Que.	3,210.5	3,237.0	3,266.1	3,281.6	3,291.5	3,303.6	3,318.4	3,335.0	3,361.7	3,386.4	3,412.6	3,449.7
Ont.	4,304.1	4,344.4	4,378.1	4,420.1	4,471.3	4,526.6	4,582.5	4,639.4	4,717.0	4,796.0	4,864.5	4,946.2
Man.	519.1	518.3	519.7	523.4	529.8	534.7	539.4	543.2	546.9	549.8	549.9	552.6
Sask.	472.8	477.3	482.2	487.0	493.6	499.7	504.1	505.5	507.4	506.4	505.4	502.3
Alta.	1,007.0	1,048.6	1,094.3	1,135.3	1,150.4	1,153.6	1,161.8	1,178.3	1,182.0	1,194.6	1,211.7	1,232.6
B.C.	1,299.0	1,338.7	1,379.2	1,402.2	1,416.5	1,434.7	1,447.2	1,458.0	1,477.8	1,507.9	1,544.5	1,584.1
Yukon	10.5	10.5	11.0	11.3	10.9	11.0	11.2	11.2	11.7	12.1	12.2	12.3
N.W.T.	20.9	21.2	21.8	22.6	23.2	23.8	24.7	24.8	24.6	24.8	25.8	26.2
<b>Canada</b>	<b>11,954.2</b>	<b>12,113.2</b>	<b>12,274.1</b>	<b>12,406.8</b>	<b>12,521.8</b>	<b>12,630.6</b>	<b>12,737.6</b>	<b>12,844.9</b>	<b>12,984.1</b>	<b>13,138.7</b>	<b>13,293.9</b>	<b>13,479.8</b>



APPENDIX A.1 (Concluded)

ESTIMATED TOTAL POPULATION BY SEX, CANADA AND PROVINCES,  
AS OF JUNE 1ST, 1979 TO 1990

Province	Total (Thousands)											
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	563.5	565.6	567.7	566.2	571.4	572.3	571.5	568.4	568.2	568.2	570.0	573.0
P.E.I.	122.0	122.8	122.5	122.4	123.7	125.1	126.0	126.6	127.3	128.8	130.2	130.3
N.S.	841.8	845.1	847.5	849.5	857.0	864.4	871.0	873.2	878.9	883.9	886.9	891.6
N.B.	692.0	695.4	696.4	696.7	703.2	707.9	710.0	710.4	712.3	714.4	718.5	723.9
Que.	6,339.0	6,386.1	6,438.2	6,462.1	6,474.9	6,492.0	6,514.3	6,540.2	6,592.5	6,639.2	6,688.7	6,762.3
Ont.	8,501.3	8,569.6	8,624.7	8,702.4	8,798.0	8,901.7	9,006.4	9,112.9	9,270.6	9,430.8	9,569.5	9,731.2
Man.	1,028.0	1,024.9	1,026.2	1,033.3	1,045.6	1,055.0	1,064.0	1,071.2	1,079.0	1,084.7	1,084.2	1,090.0
Sask.	951.3	959.4	968.3	977.0	989.3	1,000.5	1,008.3	1,010.1	1,014.0	1,011.2	1,007.0	1,000.3
Alta.	2,052.8	2,140.7	2,237.3	2,314.5	2,338.6	2,338.5	2,348.5	2,375.1	2,380.4	2,401.1	2,429.2	2,469.8
B.C.	2,589.3	2,666.0	2,744.2	2,787.7	2,813.8	2,847.6	2,870.1	2,889.1	2,925.6	2,984.0	3,055.6	3,131.7
Yukon	22.3	22.3	23.2	23.9	22.9	23.1	23.5	23.5	24.4	25.3	25.4	25.9
N.W.T.	44.0	44.6	45.8	47.4	48.8	50.1	52.0	52.2	51.7	51.9	53.4	54.1
Canada	23,747.3	24,042.5	24,341.7	24,583.1	24,787.2	24,978.2	25,165.4	25,353.0	25,625.1	25,923.3	26,218.5	26,584.0



APPENDIX A.2

ESTIMATED POPULATION AGED 15 AND OVER BY SEX, CANADA AND PROVINCES,  
AS OF JUNE 1ST, 1979 TO 1990

Province	Males (Thousands)											
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	194.1	196.9	200.0	200.9	204.7	207.0	208.7	209.2	210.4	211.7	214.4	217.5
P.E.I.	44.5	45.2	45.2	45.3	46.0	46.9	47.4	47.7	47.9	48.5	49.3	49.2
N.S.	311.8	315.2	317.8	320.0	324.2	328.3	332.2	334.7	338.0	340.2	341.6	344.1
N.B.	251.9	255.1	257.0	258.1	261.9	264.9	266.9	268.4	270.4	272.0	274.3	278.1
Que.	2,389.7	2,424.1	2,455.9	2,470.1	2,478.4	2,487.9	2,500.9	2,515.7	2,541.0	2,561.1	2,583.3	2,616.0
Ont.	3,193.9	3,241.4	3,278.8	3,319.8	3,364.5	3,412.3	3,461.4	3,513.2	3,583.5	3,651.0	3,709.1	3,771.7
Man.	381.8	382.5	384.4	387.7	393.0	397.1	401.4	405.3	409.3	411.8	411.5	414.3
Sask.	355.0	359.6	363.8	366.9	371.5	375.6	378.3	378.9	380.3	378.7	376.5	374.3
Alta.	781.6	822.0	864.9	894.4	899.6	895.4	897.1	906.9	909.8	915.9	923.2	938.0
B.C.	995.5	1,029.8	1,063.6	1,081.6	1,092.3	1,106.9	1,117.4	1,127.2	1,142.1	1,165.7	1,194.3	1,222.9
Yukon	8.6	8.7	9.0	9.4	8.9	9.0	9.1	9.2	9.6	10.0	9.9	10.1
N.W.T.	14.8	15.2	15.8	16.5	17.1	17.7	18.4	18.6	18.4	18.5	18.9	19.2
<b>Canada</b>	<b>8,923.4</b>	<b>9,095.8</b>	<b>9,256.2</b>	<b>9,370.8</b>	<b>9,461.9</b>	<b>9,548.9</b>	<b>9,639.1</b>	<b>9,735.1</b>	<b>9,860.7</b>	<b>9,984.7</b>	<b>10,106.3</b>	<b>10,255.4</b>

Province	Females (Thousands)											
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	192.5	196.4	200.4	202.1	206.4	209.1	211.1	212.3	214.6	216.8	219.3	222.1
P.E.I.	45.8	46.6	46.9	46.9	47.7	48.5	49.1	49.5	50.0	50.7	51.2	51.3
N.S.	322.0	327.1	331.1	333.9	338.8	343.5	348.0	351.1	355.1	358.3	360.8	363.7
N.B.	258.3	262.6	265.8	267.9	272.0	275.4	277.9	280.1	282.7	285.2	288.5	291.9
Que.	2,508.5	2,548.8	2,586.4	2,608.3	2,623.9	2,640.1	2,659.9	2,680.5	2,707.1	2,730.1	2,755.7	2,789.1
Ont.	3,351.6	3,410.7	3,459.0	3,506.1	3,557.8	3,612.0	3,667.8	3,726.2	3,793.8	3,858.8	3,915.0	3,981.8
Man.	397.7	400.7	403.5	407.5	413.2	417.8	422.5	426.8	430.3	432.8	433.1	435.4
Sask.	355.0	360.5	365.8	369.9	375.0	380.0	383.7	385.3	386.9	386.5	385.7	383.9
Alta.	756.6	792.7	830.7	864.2	876.7	879.8	887.7	903.1	907.3	917.9	933.1	948.1
B.C.	1,019.1	1,055.9	1,092.3	1,112.8	1,126.3	1,143.3	1,156.7	1,169.7	1,188.1	1,214.4	1,243.5	1,274.8
Yukon	7.6	7.6	8.1	8.3	8.0	8.1	8.3	8.4	8.8	9.0	9.0	9.2
N.W.T.	13.1	13.4	14.0	14.7	15.2	15.6	16.3	16.5	16.4	16.7	17.3	17.5
<b>Canada</b>	<b>9,227.7</b>	<b>9,422.3</b>	<b>9,603.9</b>	<b>9,742.7</b>	<b>9,860.9</b>	<b>9,973.3</b>	<b>10,088.9</b>	<b>10,209.5</b>	<b>10,341.1</b>	<b>10,477.3</b>	<b>10,612.1</b>	<b>10,768.7</b>

APPENDIX A.2 (Concluded)

ESTIMATED POPULATION AGED 15 AND OVER BY SEX, CANADA AND PROVINCES,  
AS OF JUNE 1ST, 1979 TO 1990

Province	Total (Thousands)											
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	386.6	393.3	400.4	403.0	411.1	416.1	419.8	421.5	425.0	428.5	433.7	439.6
P.E.I.	90.3	91.8	92.1	92.2	93.7	95.4	96.5	97.2	97.9	99.2	100.5	100.5
N.S.	633.8	642.3	648.9	653.9	663.0	671.8	680.2	685.8	693.1	698.5	702.4	707.8
N.B.	510.2	517.7	522.8	526.0	533.9	540.3	544.8	548.5	553.1	557.2	562.8	570.0
Que.	4,898.2	4,972.9	5,042.3	5,078.4	5,102.3	5,128.0	5,160.8	5,196.2	5,248.1	5,291.2	5,339.0	5,405.1
Ont.	6,545.5	6,652.1	6,737.8	6,825.9	6,922.3	7,024.3	7,129.2	7,239.4	7,377.3	7,509.8	7,624.1	7,753.5
Man.	779.5	782.5	787.9	795.2	806.2	814.9	823.9	832.1	839.6	844.6	844.6	849.7
Sask.	710.0	720.1	729.6	736.8	746.5	755.6	762.0	764.2	767.2	765.2	762.2	758.2
Alta.	1,538.2	1,614.7	1,695.6	1,758.6	1,776.3	1,775.2	1,784.8	1,810.0	1,817.1	1,833.8	1,856.3	1,886.1
B.C.	2,014.6	2,085.7	2,155.9	2,194.4	2,218.6	2,250.2	2,274.1	2,296.9	2,330.2	2,380.1	2,437.8	2,497.7
Yukon	16.2	16.3	17.1	17.7	16.9	17.1	17.4	17.6	18.4	19.0	18.9	19.3
N.W.T.	27.9	28.6	29.8	31.2	32.3	33.3	34.7	35.1	34.8	35.2	36.2	36.7
Canada	18,151.1	18,518.1	18,860.1	19,113.5	19,322.8	19,522.2	19,728.0	19,944.6	20,201.8	20,462.0	20,718.4	21,024.1

APPENDIX A.3

ESTIMATED POPULATION AGED 16 AND OVER BY SEX, CANADA AND PROVINCES,  
AS OF JUNE 1ST, 1979 TO 1990

Province	Males (Thousands)											
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	187.2	189.9	193.2	194.7	198.5	200.7	202.5	203.0	204.4	206.0	208.9	212.0
P.E.I.	43.1	43.7	43.9	44.2	44.9	45.7	46.2	46.6	46.8	47.4	48.3	48.2
N.S.	302.6	306.3	309.7	312.3	316.8	321.0	324.8	327.1	330.8	333.2	335.1	337.4
N.B.	244.1	247.4	249.9	251.7	255.5	258.7	260.6	262.0	264.1	265.9	268.6	272.3
Que.	2,324.9	2,360.5	2,398.2	2,417.5	2,429.4	2,439.8	2,452.4	2,467.9	2,496.4	2,517.2	2,539.4	2,568.6
Ont.	3,108.9	3,158.7	3,201.6	3,249.3	3,296.1	3,343.6	3,390.2	3,440.0	3,515.2	3,584.0	3,644.3	3,704.6
Man.	371.8	372.7	375.3	379.3	384.6	388.7	392.8	396.5	400.9	403.5	403.5	406.2
Sask.	344.9	349.7	354.8	358.7	363.3	367.3	370.1	370.5	372.4	371.0	369.0	366.8
Alta.	761.3	802.5	845.7	875.8	881.4	877.5	878.5	887.6	891.7	898.2	906.1	920.3
B.C.	971.1	1,006.1	1,041.5	1,060.7	1,071.5	1,085.1	1,095.0	1,105.1	1,121.6	1,145.6	1,174.5	1,202.3
Yukon	8.4	8.4	8.8	9.2	8.7	8.8	8.9	9.0	9.4	9.8	9.7	10.0
N.W.T.	14.3	14.6	15.3	16.0	16.6	17.1	17.9	18.0	17.8	18.0	18.4	18.7
Canada	8,682.5	8,860.7	9,037.8	9,169.2	9,267.4	9,354.2	9,439.8	9,534.1	9,671.7	9,799.7	9,925.7	10,067.2

Province	Females (Thousands)											
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	186.0	189.7	193.8	196.0	200.3	203.2	205.3	206.4	209.0	211.3	214.1	217.0
P.E.I.	44.3	45.3	45.7	45.8	46.6	47.4	48.0	48.5	49.0	49.7	50.2	50.3
N.S.	313.4	318.6	323.3	326.7	331.8	336.7	341.1	343.9	348.2	351.7	354.5	357.4
N.B.	251.0	255.4	259.0	261.7	266.0	269.6	272.0	273.9	276.7	279.5	283.0	286.2
Que.	2,446.9	2,488.3	2,531.6	2,558.2	2,576.5	2,594.7	2,614.0	2,635.4	2,664.5	2,688.4	2,713.5	2,744.2
Ont.	3,271.0	3,331.9	3,386.2	3,438.8	3,492.5	3,547.0	3,600.6	3,657.0	3,729.7	3,795.9	3,853.4	3,917.9
Man.	387.9	390.6	394.7	399.4	405.3	409.8	414.3	418.3	422.3	425.0	425.5	427.8
Sask.	345.2	351.2	357.2	362.1	367.3	372.2	375.9	377.3	379.3	378.9	378.5	376.7
Alta.	737.3	773.9	812.6	846.2	859.3	862.6	870.2	885.0	890.6	901.2	916.4	931.1
B.C.	995.8	1,033.5	1,071.1	1,092.8	1,106.6	1,122.8	1,135.6	1,148.4	1,168.7	1,195.0	1,224.9	1,255.1
Yukon	7.4	7.4	7.9	8.1	7.9	7.9	8.1	8.2	8.6	8.8	8.8	9.0
N.W.T.	12.6	12.9	13.5	14.2	14.7	15.1	15.8	16.0	15.9	16.2	16.9	17.1
Canada	8,998.7	9,198.6	9,396.4	9,550.2	9,675.1	9,789.1	9,900.8	10,018.3	10,162.7	10,301.8	10,439.6	10,589.8



APPENDIX A.3 (Concluded)

ESTIMATED POPULATION AGED 16 AND OVER BY SEX, CANADA AND PROVINCES,  
AS OF JUNE 1ST, 1979 TO 1990

Province	Total (Thousands)											
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	373.2	379.6	387.0	390.7	398.8	403.9	407.8	409.4	413.4	417.3	423.0	429.0
P.E.I.	87.4	89.0	89.6	90.0	91.5	93.1	94.2	95.1	95.8	97.1	98.5	98.5
N.S.	616.0	624.9	633.0	639.0	648.6	657.7	665.9	671.0	679.0	684.9	689.6	694.8
N.B.	495.1	502.8	508.9	513.4	521.5	528.3	532.6	535.9	540.8	545.4	551.6	558.5
Que.	4,771.8	4,848.8	4,929.8	4,975.7	5,005.9	5,034.5	5,066.4	5,103.3	5,160.9	5,205.6	5,252.9	5,312.8
Ont.	6,379.9	6,490.6	6,587.8	6,688.1	6,788.8	6,890.6	6,990.8	7,097.6	7,244.9	7,379.9	7,497.7	7,622.5
Man.	759.7	763.3	770.0	778.7	789.9	798.5	807.1	814.8	823.2	828.5	829.0	834.0
Sask.	690.1	700.9	712.0	720.8	730.6	739.5	746.0	747.8	751.7	749.9	747.5	743.5
Alta.	1,498.6	1,576.4	1,658.3	1,722.0	1,740.7	1,740.1	1,748.7	1,772.6	1,782.3	1,799.4	1,822.5	1,851.4
B.C.	1,966.9	2,039.6	2,112.6	2,153.5	2,178.1	2,207.9	2,230.6	2,253.5	2,290.3	2,340.6	2,399.4	2,457.4
Yukon	15.8	15.8	16.7	17.3	16.6	16.7	17.0	17.2	18.0	18.6	18.5	19.0
N.W.T.	26.9	27.5	28.8	30.2	31.3	32.2	33.7	34.0	33.7	34.2	35.3	35.8
Canada	17,681.2	18,059.3	18,434.2	18,719.4	18,942.5	19,143.3	19,340.6	19,552.4	19,834.4	20,101.5	20,365.3	20,657.0



APPENDIX A.4

ESTIMATED POPULATION AGED 18 AND OVER BY SEX, CANADA AND PROVINCES,  
AS OF JUNE 1ST, 1979 TO 1990

Province	Males (Thousands)											
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	174.6	176.9	179.5	181.6	186.0	188.6	190.2	190.9	192.4	194.2	197.6	201.1
P.E.I.	40.3	40.9	41.2	41.6	42.6	43.5	43.9	44.3	44.6	45.2	46.1	46.1
N.S.	284.4	288.0	291.7	295.4	301.2	305.9	310.2	312.5	315.9	318.6	321.0	324.0
N.B.	228.9	231.9	234.6	237.4	242.3	246.0	248.1	249.6	251.6	253.4	256.4	260.7
Que.	2,193.9	2,230.0	2,269.4	2,297.6	2,320.7	2,339.3	2,355.9	2,371.3	2,400.1	2,424.7	2,450.5	2,480.2
Ont.	2,940.1	2,987.5	3,033.0	3,090.4	3,149.5	3,204.6	3,252.6	3,299.6	3,369.8	3,441.0	3,507.3	3,570.7
Man.	351.7	352.7	355.5	360.5	367.3	372.1	375.9	379.3	383.4	386.4	387.1	389.9
Sask.	325.2	329.5	334.7	340.1	346.3	351.1	353.9	354.3	356.2	355.2	353.8	352.1
Alta.	718.9	759.4	802.8	834.9	843.2	841.0	842.5	850.5	853.0	860.1	869.6	884.6
B.C.	921.9	956.1	992.0	1,014.8	1,029.1	1,043.7	1,052.5	1,060.8	1,077.0	1,102.5	1,133.1	1,161.2
Yukon	7.9	7.9	8.3	8.6	8.3	8.5	8.6	8.6	9.0	9.4	9.3	9.6
N.W.T.	13.4	13.7	14.2	14.9	15.5	16.1	16.8	17.0	16.7	16.8	17.3	17.7
<b>Canada</b>	<b>8,201.3</b>	<b>8,374.5</b>	<b>8,556.9</b>	<b>8,717.9</b>	<b>8,852.1</b>	<b>8,960.3</b>	<b>9,051.2</b>	<b>9,138.6</b>	<b>9,269.8</b>	<b>9,407.6</b>	<b>9,549.3</b>	<b>9,698.0</b>

Province	Females (Thousands)											
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	173.9	177.2	180.8	183.4	188.2	191.3	193.6	195.0	197.6	200.1	203.3	206.6
P.E.I.	41.8	42.5	43.0	43.5	44.4	45.2	45.8	46.4	46.9	47.7	48.3	48.5
N.S.	296.2	301.4	306.2	310.7	316.9	322.6	327.3	330.3	334.2	337.8	341.0	344.5
N.B.	236.5	240.9	244.6	248.0	253.2	257.5	260.3	262.4	264.9	267.7	271.5	275.0
Que.	2,320.9	2,362.8	2,408.9	2,443.8	2,472.9	2,498.0	2,521.6	2,544.1	2,573.5	2,600.7	2,629.0	2,659.9
Ont.	3,109.0	3,169.3	3,225.8	3,287.2	3,352.5	3,414.1	3,469.9	3,523.7	3,591.6	3,660.6	3,724.6	3,791.3
Man.	368.2	371.0	375.5	381.2	388.4	393.8	398.4	402.0	405.6	408.5	409.9	412.5
Sask.	325.9	331.6	338.1	344.5	351.1	356.7	360.5	361.9	363.9	363.9	363.9	362.4
Alta.	695.7	732.7	772.3	807.1	822.3	827.2	835.6	849.6	854.4	865.8	882.0	896.7
B.C.	948.7	985.6	1,023.8	1,048.9	1,065.8	1,083.2	1,095.4	1,106.7	1,126.2	1,153.8	1,185.6	1,216.2
Yukon	6.9	7.0	7.4	7.7	7.5	7.6	7.7	7.8	8.2	8.5	8.4	8.7
N.W.T.	11.6	12.0	12.5	13.2	13.7	14.2	14.8	15.0	14.9	15.2	15.9	16.2
<b>Canada</b>	<b>8,535.2</b>	<b>8,733.9</b>	<b>8,939.2</b>	<b>9,119.1</b>	<b>9,277.0</b>	<b>9,411.5</b>	<b>9,530.9</b>	<b>9,644.8</b>	<b>9,781.9</b>	<b>9,930.2</b>	<b>10,083.4</b>	<b>10,238.5</b>

APPENDIX A.4 (Concluded)

ESTIMATED POPULATION AGED 18 AND OVER BY SEX, CANADA AND PROVINCES,  
AS OF JUNE 1ST, 1979 TO 1990

Province	Total (Thousands)											
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	348.5	354.1	360.3	365.0	374.2	379.9	383.8	385.9	390.0	394.3	400.9	407.7
P.E.I.	82.1	83.4	84.2	85.1	87.0	88.7	89.7	90.7	91.5	92.9	94.4	94.6
N.S.	580.6	589.4	597.9	606.1	618.1	628.5	637.5	642.8	650.1	656.4	662.0	668.5
N.B.	465.4	472.8	479.2	485.4	495.5	503.5	508.4	512.0	516.5	521.1	527.9	535.7
Que.	4,514.8	4,592.8	4,678.3	4,741.4	4,793.6	4,837.3	4,877.5	4,915.4	4,973.6	5,025.4	5,079.5	5,140.1
Ont.	6,049.1	6,156.8	6,258.8	6,377.6	6,502.0	6,618.7	6,722.5	6,823.3	6,961.4	7,101.6	7,231.9	7,362.0
Man.	719.9	723.7	731.0	741.7	755.7	765.9	774.3	781.3	789.0	794.9	797.0	802.4
Sask.	651.1	661.1	672.8	684.6	697.4	707.8	714.4	716.2	720.1	719.1	717.7	714.5
Alta.	1,414.6	1,492.1	1,575.1	1,642.0	1,665.5	1,668.2	1,678.1	1,700.1	1,707.4	1,725.9	1,751.6	1,781.3
B.C.	1,870.6	1,941.7	2,015.8	2,063.7	2,094.9	2,126.9	2,147.9	2,167.5	2,203.2	2,256.3	2,318.7	2,377.4
Yukon	14.8	14.9	15.7	16.3	15.8	16.1	16.3	16.4	17.2	17.9	17.7	18.3
N.W.T.	25.0	25.7	26.7	28.1	29.2	30.3	31.6	32.0	31.6	32.0	33.2	33.9
Canada	16,736.5	17,108.4	17,496.1	17,837.0	18,129.1	18,371.8	18,582.1	18,783.4	19,051.7	19,337.8	19,632.7	19,936.5

APPENDIX A.5

ESTIMATED POPULATION AGED 20 AND OVER BY SEX, CANADA AND PROVINCES,  
AS OF JUNE 1ST, 1979 TO 1990

Province	Males (Thousands)											
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	162.8	165.4	168.0	169.7	173.7	176.5	178.6	179.5	181.0	183.0	186.4	189.9
P.E.I.	37.8	38.4	38.6	39.0	40.0	41.1	41.8	42.1	42.5	43.2	43.9	43.9
N.S.	267.2	270.5	273.8	277.8	283.7	289.4	294.6	297.5	301.6	304.3	306.2	309.3
N.B.	214.5	217.7	220.1	222.7	227.9	232.2	235.4	237.3	239.6	241.6	244.2	248.3
Que.	2,060.5	2,098.5	2,139.5	2,169.3	2,196.1	2,222.6	2,249.2	2,271.8	2,304.0	2,328.5	2,354.1	2,387.2
Ont.	2,773.1	2,820.5	2,865.4	2,920.6	2,983.3	3,047.2	3,106.3	3,159.8	3,229.9	3,297.0	3,358.7	3,424.7
Man.	331.3	332.8	335.7	340.8	347.8	353.4	358.8	362.7	366.6	369.2	369.7	373.0
Sask.	305.8	310.6	315.5	320.5	327.2	333.1	337.4	338.6	340.5	339.6	338.2	336.9
Alta.	672.4	712.3	755.2	787.2	798.3	800.3	804.6	813.4	815.7	821.5	830.1	845.6
B.C.	872.3	906.6	941.3	964.0	980.7	999.0	1,010.9	1,020.0	1,034.5	1,057.6	1,087.7	1,117.0
Yukon	7.5	7.5	7.8	8.2	7.9	8.0	8.2	8.3	8.6	8.9	8.9	9.1
N.W.T.	12.3	12.6	13.2	13.8	14.5	15.1	15.8	15.9	15.7	15.8	16.3	16.6
Canada	7,717.7	7,893.7	8,074.2	8,233.8	8,380.8	8,517.8	8,641.4	8,747.0	8,880.1	9,009.7	9,144.3	9,301.6

Province	Females (Thousands)											
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	162.4	165.8	169.4	171.7	176.3	179.5	182.2	183.8	186.5	189.3	192.6	195.9
P.E.I.	39.3	40.1	40.6	40.8	41.9	42.9	43.7	44.2	44.9	45.8	46.3	46.5
N.S.	279.4	284.5	289.3	294.0	300.4	306.8	312.6	316.4	320.7	324.4	327.1	330.7
N.B.	222.7	226.9	230.6	234.1	239.5	244.3	247.9	250.7	253.6	256.4	259.8	263.3
Que.	2,190.5	2,235.3	2,282.7	2,319.4	2,352.8	2,385.4	2,419.0	2,447.8	2,481.1	2,509.3	2,537.6	2,571.5
Ont.	2,946.3	3,006.0	3,063.5	3,124.5	3,192.2	3,261.7	3,328.3	3,389.1	3,458.5	3,524.3	3,583.3	3,652.6
Man.	348.5	351.5	356.0	361.7	369.3	375.6	381.6	386.0	389.7	392.4	393.4	396.3
Sask.	307.2	313.0	319.1	325.3	332.5	339.4	344.6	346.9	349.0	349.2	349.1	348.2
Alta.	651.3	686.9	726.0	761.4	779.1	787.4	798.2	813.2	818.4	829.1	844.7	859.8
B.C.	900.5	937.7	975.3	1,000.1	1,019.3	1,040.0	1,055.2	1,067.6	1,085.7	1,111.2	1,142.2	1,173.9
Yukon	6.5	6.6	7.1	7.3	7.1	7.2	7.4	7.5	7.8	8.0	8.0	8.2
N.W.T.	10.9	11.0	11.5	12.2	12.7	13.1	13.8	14.0	13.9	14.2	14.9	15.1
Canada	8,065.0	8,265.2	8,471.0	8,652.7	8,822.8	8,983.4	9,134.4	9,267.2	9,410.1	9,553.7	9,698.9	9,862.1



APPENDIX A.5 (Concluded)

ESTIMATED POPULATION AGED 20 AND OVER BY SEX, CANADA AND PROVINCES,  
AS OF JUNE 1ST, 1979 TO 1990

Province	Total (Thousands)											
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Nfld.	325.2	331.2	337.4	341.4	350.0	356.0	360.8	363.3	367.5	372.3	379.0	384.4
P.E.I.	77.1	78.5	79.2	79.8	81.9	84.0	85.5	86.3	87.4	89.0	90.2	89.9
N.S.	546.6	555.0	563.1	571.8	584.1	596.2	607.2	613.9	622.3	628.7	633.3	638.2
N.B.	437.2	444.6	450.7	456.8	467.4	476.5	483.3	488.0	493.2	498.0	504.0	510.4
Que.	4,251.0	4,333.8	4,422.2	4,488.7	4,548.9	4,608.0	4,668.2	4,719.6	4,785.1	4,837.8	4,891.7	4,947.5
Ont.	5,719.4	5,826.5	5,928.9	6,045.1	6,175.5	6,308.9	6,434.6	6,548.9	6,688.4	6,821.3	6,942.0	7,059.5
Man.	679.8	684.3	691.7	702.5	717.1	729.0	740.4	748.7	756.3	761.6	763.1	767.1
Sask.	613.0	623.6	634.6	645.8	659.7	672.5	682.0	685.5	689.5	688.8	687.3	683.4
Alta.	1,323.7	1,399.2	1,481.2	1,548.6	1,577.4	1,587.7	1,602.8	1,626.6	1,634.1	1,650.6	1,674.8	1,701.3
B.C.	1,772.8	1,844.3	1,916.6	1,964.1	2,000.0	2,039.0	2,066.1	2,087.6	2,120.2	2,168.8	2,229.9	2,285.9
Yukon	14.0	14.1	14.9	15.5	15.0	15.2	15.6	15.8	16.4	16.9	16.9	17.3
N.W.T.	23.2	23.6	24.7	26.0	27.2	28.2	29.6	29.9	29.6	30.0	31.2	31.5
Canada	15,782.7	16,158.9	16,545.2	16,886.5	17,203.6	17,501.2	17,775.8	18,014.2	18,290.2	18,563.4	18,843.2	19,116.5



APPENDIX A.6

ESTIMATED TOTAL POPULATION BY SEX, CANADA AND PROVINCES,  
AS OF OCTOBER 1ST, 1979 TO 1989

Province	Males (Thousands)										
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Nfld.	285.5	285.7	285.5	285.9	287.0	286.4	285.1	284.0	283.2	283.5	284.7
P.E.I.	61.0	61.0	61.0	61.2	61.8	62.3	62.7	63.0	63.2	63.9	64.4
N.S.	418.7	419.8	420.0	421.9	425.3	428.4	430.2	431.7	434.1	435.4	436.6
N.B.	345.3	346.2	345.5	347.1	349.5	351.2	351.5	351.3	351.8	352.6	355.3
Que.	3,133.5	3,156.6	3,174.2	3,179.6	3,183.3	3,190.4	3,198.9	3,213.2	3,238.5	3,259.7	3,288.8
Ont.	4,205.1	4,231.7	4,254.8	4,297.8	4,343.0	4,396.9	4,444.5	4,500.5	4,585.5	4,661.7	4,732.2
Man.	507.1	506.3	507.1	512.3	517.5	521.5	525.1	529.1	532.7	534.7	534.9
Sask.	479.5	483.6	487.7	492.5	497.6	502.8	505.0	504.5	505.7	502.5	499.8
Alta.	1,061.4	1,112.5	1,159.3	1,183.7	1,186.4	1,181.2	1,186.1	1,196.0	1,198.3	1,211.7	1,225.9
B.C.	1,302.6	1,340.9	1,374.1	1,390.3	1,403.4	1,417.8	1,427.3	1,436.7	1,457.6	1,488.5	1,525.4
Yukon	12.0	12.0	12.3	12.4	12.1	12.3	12.4	12.5	13.0	13.2	13.4
N.W.T.	23.3	23.7	24.4	25.2	26.0	26.6	27.2	27.1	27.0	27.0	27.7
Canada	11,834.8	11,979.8	12,105.6	12,209.6	12,292.8	12,377.7	12,456.2	12,549.7	12,690.8	12,834.4	12,989.2

Province	Females (Thousands)										
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Nfld.	279.9	281.2	282.1	283.0	284.8	284.9	284.2	284.1	284.3	285.2	286.7
P.E.I.	61.2	61.5	61.6	61.8	62.6	63.0	63.4	63.8	64.4	65.2	65.9
N.S.	424.3	427.0	428.6	431.2	435.3	439.2	441.9	444.0	447.2	449.6	452.1
N.B.	347.7	349.8	350.1	352.4	355.6	357.9	358.9	359.4	360.6	362.5	365.4
Que.	3,217.4	3,246.6	3,270.5	3,282.9	3,293.6	3,308.0	3,323.8	3,343.3	3,370.4	3,394.2	3,425.6
Ont.	4,316.0	4,355.0	4,388.3	4,437.8	4,489.8	4,551.0	4,605.7	4,665.5	4,748.4	4,822.5	4,892.3
Man.	517.8	518.5	520.3	525.9	531.6	536.0	540.1	544.1	547.6	549.8	550.4
Sask.	474.1	479.1	484.1	489.8	495.9	502.0	505.3	505.4	506.8	504.8	503.8
Alta.	1,021.0	1,067.1	1,111.9	1,141.8	1,150.8	1,152.1	1,163.4	1,178.2	1,183.5	1,201.8	1,220.5
B.C.	1,312.2	1,353.3	1,389.1	1,407.9	1,423.5	1,440.4	1,452.5	1,464.7	1,488.3	1,520.9	1,559.9
Yukon	10.6	10.7	11.1	11.1	10.9	11.1	11.2	11.5	11.9	12.1	12.3
N.W.T.	21.1	21.4	22.1	22.9	23.5	24.1	24.7	24.6	24.6	24.9	25.9
Canada	12,003.4	12,171.3	12,320.1	12,448.8	12,558.0	12,669.7	12,774.9	12,888.5	13,037.7	13,193.6	13,360.7

APPENDIX A.6 (Concluded)

ESTIMATED TOTAL POPULATION BY SEX, CANADA AND PROVINCES,  
AS OF OCTOBER 1ST, 1979 TO 1989

Province	Total (Thousands)												
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989		
Nfld.	565.4	566.9	567.6	568.9	571.8	571.3	569.3	568.1	567.5	568.7	571.4		
P.E.I.	122.2	122.5	122.6	123.0	124.4	125.3	126.1	126.8	127.6	129.1	130.3		
N.S.	843.0	846.8	848.6	853.1	860.6	867.6	872.1	875.7	881.3	885.0	888.7		
N.B.	693.0	696.0	695.6	699.5	705.1	709.1	710.4	710.7	712.4	715.1	720.7		
Que.	6,350.9	6,403.2	6,444.7	6,462.5	6,476.9	6,498.4	6,522.7	6,556.5	6,608.9	6,653.9	6,714.4		
Ont.	8,521.1	8,586.7	8,643.1	8,735.6	8,832.8	8,947.9	9,050.2	9,166.0	9,333.9	9,484.2	9,624.5		
Man.	1,024.9	1,024.8	1,027.4	1,038.2	1,049.1	1,057.5	1,065.2	1,073.2	1,080.3	1,084.5	1,085.3		
Sask.	953.6	962.7	971.8	982.3	993.5	1,004.8	1,010.3	1,009.9	1,012.5	1,007.3	1,003.6		
Alta.	2,082.4	2,179.6	2,271.2	2,325.5	2,337.2	2,333.3	2,349.5	2,374.2	2,381.8	2,413.5	2,446.4		
B.C.	2,614.8	2,694.2	2,763.2	2,798.2	2,826.9	2,858.2	2,879.8	2,901.4	2,945.9	3,009.4	3,085.3		
Yukon	22.6	22.7	23.4	23.5	23.0	23.4	23.6	24.0	24.9	25.3	25.7		
N.W.T.	44.4	45.1	46.5	48.1	49.5	50.7	51.9	51.7	51.6	51.9	53.6		
Canada	23,838.2	24,151.1	24,425.7	24,658.4	24,850.8	25,047.4	25,231.1	25,438.2	25,728.5	26,028.0	26,349.9		

APPENDIX A.7

ESTIMATED POPULATION AGED 15 AND OVER BY SEX, CANADA AND PROVINCES, AS OF OCTOBER 1ST, 1979 TO 1989

Province	Males (Thousands)										
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Nfld.	195.4	198.1	200.4	202.5	205.5	207.3	208.4	209.5	210.6	212.6	215.6
P.E.I.	44.7	45.1	45.3	45.6	46.4	47.0	47.5	47.8	48.0	48.7	49.3
N.S.	313.0	316.4	318.7	321.8	326.0	330.0	333.2	336.0	339.0	340.7	342.5
N.B.	252.9	255.8	257.0	259.6	263.0	265.8	267.5	268.9	270.7	272.5	275.7
Que.	2,399.7	2,434.6	2,460.1	2,471.4	2,480.1	2,491.8	2,505.7	2,523.7	2,548.0	2,567.8	2,594.6
Ont.	3,208.6	3,253.4	3,289.6	3,335.2	3,380.5	3,433.0	3,481.8	3,536.8	3,609.8	3,673.1	3,730.4
Man.	381.3	382.9	385.1	389.8	394.5	398.3	402.2	406.4	409.9	411.7	412.1
Sask.	356.4	361.1	365.1	368.9	373.0	377.1	379.0	378.8	379.6	377.0	375.3
Alta.	795.1	838.8	877.9	897.3	897.7	892.7	897.4	906.8	909.7	919.5	929.5
B.C.	1,006.9	1,041.9	1,071.3	1,085.9	1,097.9	1,111.6	1,122.0	1,132.2	1,150.3	1,175.8	1,205.5
Yukon	8.7	8.8	9.1	9.2	8.9	9.1	9.2	9.4	9.8	10.0	10.0
N.W.T.	15.0	15.4	16.1	16.8	17.4	17.9	18.4	18.4	18.4	18.5	19.0
<b>Canada</b>	<b>9,977.9</b>	<b>9,152.5</b>	<b>9,295.7</b>	<b>9,403.9</b>	<b>9,490.9</b>	<b>9,581.5</b>	<b>9,672.3</b>	<b>9,774.8</b>	<b>9,903.5</b>	<b>10,027.6</b>	<b>10,159.7</b>

Province	Females (Thousands)										
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Nfld.	194.2	197.9	201.1	203.9	207.3	209.5	211.1	213.0	215.1	217.6	220.4
P.E.I.	46.0	46.6	47.0	47.2	48.1	48.7	49.2	49.7	50.2	50.8	51.3
N.S.	323.7	328.8	332.2	336.0	340.8	345.4	349.2	352.7	356.5	359.2	361.9
N.B.	259.7	263.8	266.2	269.5	273.3	276.4	278.7	280.8	283.3	286.0	289.8
Que.	2,520.4	2,561.2	2,593.1	2,611.9	2,627.8	2,646.3	2,666.7	2,688.9	2,715.1	2,737.9	2,767.3
Ont.	3,370.1	3,426.3	3,471.7	3,523.8	3,575.9	3,635.2	3,690.6	3,748.9	3,819.5	3,880.5	3,937.7
Man.	397.7	401.0	404.4	409.7	414.9	419.2	423.5	427.7	430.9	432.9	433.5
Sask.	356.7	362.4	367.4	372.1	376.8	381.9	384.8	385.3	386.6	385.3	384.7
Alta.	768.7	807.8	844.9	869.5	877.2	879.2	889.8	903.5	908.7	924.1	939.5
B.C.	1,031.3	1,068.8	1,100.9	1,118.0	1,132.7	1,149.0	1,162.4	1,175.9	1,197.2	1,224.7	1,255.7
Yukon	7.7	7.8	8.2	8.2	8.0	8.2	8.4	8.6	8.9	9.0	9.1
N.W.T.	13.3	13.6	14.3	14.9	15.4	15.8	16.3	16.4	16.4	16.7	17.4
<b>Canada</b>	<b>9,289.4</b>	<b>9,486.1</b>	<b>9,651.5</b>	<b>9,784.9</b>	<b>9,898.3</b>	<b>10,014.5</b>	<b>10,130.3</b>	<b>10,251.1</b>	<b>10,388.1</b>	<b>10,524.7</b>	<b>10,668.1</b>



APPENDIX A.7 (Concluded)

ESTIMATED POPULATION AGED 15 AND OVER BY SEX, CANADA AND PROVINCES,  
AS OF OCTOBER 1ST, 1979 TO 1989

Province	Total (Thousands)										
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Nfld.	389.7	396.1	401.6	406.4	412.8	416.8	419.5	422.5	425.6	430.2	436.0
P.E.I.	90.7	91.8	92.2	92.8	94.4	95.7	96.7	97.4	98.2	99.5	100.6
N.S.	636.7	645.2	650.9	657.8	666.8	675.4	682.4	688.7	695.5	699.9	704.4
N.B.	512.6	519.6	523.2	529.1	536.3	542.2	546.2	549.8	554.0	558.5	565.5
Que.	4,920.1	4,995.8	5,053.2	5,083.3	5,107.9	5,138.1	5,172.4	5,212.6	5,263.1	5,305.7	5,361.9
Ont.	6,578.6	6,679.6	6,761.2	6,859.0	6,956.4	7,068.1	7,172.4	7,285.7	7,429.3	7,553.6	7,668.1
Man.	778.9	783.9	789.4	799.5	809.4	817.5	825.7	834.1	840.8	844.6	845.6
Sask.	713.1	723.5	732.5	740.9	749.9	759.0	763.8	764.1	766.1	762.3	760.0
Alta.	1,563.8	1,646.7	1,722.8	1,766.8	1,774.9	1,771.9	1,787.2	1,810.3	1,818.5	1,843.6	1,869.0
B.C.	2,038.2	2,110.7	2,172.3	2,203.9	2,230.6	2,260.6	2,284.4	2,308.1	2,347.5	2,400.6	2,461.2
Yukon	16.5	16.6	17.3	17.4	17.0	17.3	17.5	18.0	18.8	18.9	19.1
N.W.T.	28.3	29.1	30.4	31.7	32.8	33.7	34.7	34.8	34.8	35.2	36.3
Canada	18,267.3	18,638.6	18,947.2	19,188.8	19,389.1	19,596.0	19,802.6	20,025.9	20,291.6	20,552.4	20,827.8



APPENDIX A.8

ESTIMATED POPULATION AGED 20 AND OVER BY SEX, CANADA AND PROVINCES,  
AS OF OCTOBER 1ST, 1979 TO 1989

Province	Males (Thousands)										
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Nfld.	164.0	166.4	168.7	171.3	174.7	177.0	178.5	179.9	181.4	184.1	187.7
P.E.I.	38.0	38.4	38.8	39.4	40.4	41.3	41.9	42.2	42.7	43.4	43.9
N.S.	268.3	271.9	275.3	280.1	286.0	291.5	295.7	299.1	302.8	305.0	307.3
N.B.	215.5	218.6	220.7	224.6	229.4	233.4	236.1	238.0	240.1	242.2	245.7
Que.	2,071.9	2,112.0	2,148.9	2,176.9	2,203.7	2,231.1	2,256.6	2,282.1	2,312.4	2,336.4	2,365.5
Ont.	2,787.9	2,935.0	2,881.2	2,941.9	3,004.6	3,070.7	3,127.0	3,183.3	3,255.7	3,320.0	3,381.1
Man.	331.1	333.6	337.0	343.4	349.8	355.0	359.7	363.8	367.3	369.4	370.5
Sask.	307.3	312.3	317.4	323.1	329.3	335.1	338.3	338.7	340.0	338.3	337.4
Alta.	685.7	728.7	768.6	791.9	798.5	798.8	804.8	813.3	815.8	825.4	836.5
B.C.	883.7	918.8	950.4	970.2	987.4	1,004.0	1,015.1	1,024.9	1,042.5	1,068.2	1,099.0
Yukon	7.6	7.6	7.9	8.1	7.9	8.1	8.3	8.5	8.8	8.9	9.0
N.W.T.	12.5	12.8	13.4	14.1	14.8	15.3	15.8	15.7	15.7	15.8	16.4
<b>Canada</b>	<b>7,773.7</b>	<b>7,956.6</b>	<b>8,128.4</b>	<b>8,285.1</b>	<b>8,426.3</b>	<b>8,561.2</b>	<b>8,677.6</b>	<b>8,789.4</b>	<b>8,924.6</b>	<b>9,056.7</b>	<b>9,200.0</b>

Province	Females (Thousands)										
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Nfld.	163.9	167.2	170.3	173.5	177.4	180.2	182.4	184.6	187.2	190.4	193.8
P.E.I.	39.5	40.2	40.7	41.2	42.3	43.1	43.8	44.4	45.1	45.9	46.4
N.S.	281.1	286.4	291.0	296.5	302.9	309.1	314.0	318.0	322.2	325.3	328.4
N.B.	224.1	228.2	231.5	236.1	241.2	245.7	248.9	251.5	254.3	257.3	261.1
Que.	2,204.1	2,251.0	2,294.4	2,329.1	2,362.3	2,396.2	2,428.5	2,458.5	2,490.8	2,518.0	2,549.3
Ont.	2,965.1	3,024.7	3,081.1	3,147.5	3,215.4	3,288.0	3,351.6	3,412.4	3,484.1	3,546.6	3,606.8
Man.	348.8	352.8	357.5	364.5	371.5	377.4	382.6	387.0	390.4	392.7	394.1
Sask.	309.0	315.1	321.4	328.1	334.9	341.7	345.8	347.1	348.9	348.3	348.4
Alta.	663.2	702.0	740.4	768.3	781.4	788.1	800.5	814.0	820.1	835.3	851.0
B.C.	912.8	950.9	985.1	1,007.1	1,026.8	1,046.2	1,060.6	1,073.7	1,094.5	1,122.1	1,154.4
Yukon	6.6	6.8	7.2	7.2	7.1	7.3	7.5	7.7	7.9	8.0	8.1
N.W.T.	11.0	11.2	11.8	12.4	12.9	13.3	13.8	13.9	14.0	14.3	15.0
<b>Canada</b>	<b>8,128.9</b>	<b>8,336.6</b>	<b>8,532.6</b>	<b>8,711.8</b>	<b>8,876.2</b>	<b>9,036.0</b>	<b>9,179.7</b>	<b>9,312.7</b>	<b>9,459.4</b>	<b>9,604.3</b>	<b>9,756.8</b>

APPENDIX A.8 (Concluded)

ESTIMATED POPULATION AGED 20 AND OVER BY SEX, CANADA AND PROVINCES,  
AS OF OCTOBER 1ST, 1979 TO 1989

Province	Total (Thousands)												
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989		
Nfld.	327.9	333.6	339.0	344.8	352.1	357.1	360.9	364.6	368.6	374.5	381.1		
P.E.I.	77.5	78.6	79.5	80.6	82.8	84.4	85.7	86.6	87.8	89.3	90.1		
N.S.	549.5	558.3	566.3	576.6	588.9	600.5	609.7	617.1	624.9	630.3	635.1		
N.B.	439.6	446.8	452.1	460.7	470.6	479.1	485.0	489.5	494.4	499.5	506.4		
Que.	4,276.0	4,363.0	4,443.3	4,506.0	4,566.0	4,627.3	4,685.1	4,740.6	4,803.2	4,854.4	4,911.1		
Ont.	5,753.0	5,859.7	5,962.3	6,089.3	6,220.0	6,358.7	6,478.5	6,595.7	6,739.8	6,866.7	6,982.0		
Man.	679.9	686.4	694.5	707.9	721.3	732.4	742.3	750.8	757.6	762.1	763.8		
Sask.	616.3	627.5	638.7	651.2	664.3	676.8	684.1	685.8	688.9	686.6	685.2		
Alta.	1,348.9	1,430.8	1,509.0	1,560.2	1,579.9	1,586.9	1,605.3	1,627.3	1,635.8	1,660.7	1,686.2		
B.C.	1,796.5	1,869.8	1,935.5	1,977.3	2,014.3	2,050.2	2,075.7	2,098.5	2,137.0	2,190.2	2,251.7		
Yukon	14.2	14.4	15.1	15.3	15.1	15.4	15.7	16.1	16.7	16.9	17.1		
N.W.T.	23.4	24.0	25.2	26.5	27.7	28.6	29.6	29.6	29.6	30.1	31.3		
Canada	15,902.6	16,293.1	16,661.0	16,996.9	17,302.5	17,597.3	17,857.3	18,102.1	18,384.0	18,661.0	18,941.1		

APPENDIX A.9

ESTIMATED TOTAL POPULATION BY AGE AND SEX, CANADA, AS OF JUNE 1ST, 1979 TO 1990

Males (Thousands)

Age	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
0-4	905.6	911.1	914.4	924.1	933.4	938.1	936.5	930.7	936.8	945.4	947.6	961.7
5-9	929.5	921.2	912.0	908.8	907.6	913.5	917.7	922.8	926.8	936.0	942.6	949.1
10-14	1,034.7	1,001.3	984.9	972.5	962.5	947.2	934.4	919.6	916.8	918.5	928.1	938.0
15-19	1,205.7	1,202.1	1,192.0	1,137.0	1,081.1	1,031.1	997.7	988.1	980.6	975.0	962.0	953.8
20-24	1,139.4	1,156.6	1,174.2	1,181.7	1,187.0	1,186.6	1,170.7	1,133.7	1,104.5	1,066.9	1,035.2	1,016.6
25-29	1,034.0	1,061.5	1,084.3	1,110.5	1,131.6	1,144.0	1,154.2	1,166.8	1,176.0	1,185.1	1,191.2	1,190.4
30-34	951.6	988.5	1,021.3	1,023.5	1,030.6	1,046.1	1,066.9	1,085.2	1,114.8	1,141.3	1,161.2	1,182.2
35-39	758.2	789.3	822.1	878.6	919.3	952.8	985.5	1,012.1	1,015.0	1,028.3	1,050.4	1,082.7
40-44	644.9	656.7	674.6	696.5	725.3	752.8	780.9	811.8	868.1	911.5	948.3	988.4
45-49	641.4	636.9	634.7	629.8	628.6	637.1	646.6	660.8	682.6	713.7	744.0	775.9
50-54	604.6	613.2	621.6	627.4	628.8	626.0	619.9	617.0	613.5	613.4	623.4	636.2
55-59	551.4	560.4	568.3	571.5	578.4	582.1	588.7	594.2	599.9	603.0	601.8	599.5
60-64	437.3	446.9	462.4	481.5	499.1	517.3	524.6	530.9	534.6	542.3	547.1	555.3
65-69	372.3	382.9	390.5	394.3	393.7	392.3	401.2	415.0	433.7	450.4	467.5	475.6
70-74	262.3	271.4	281.2	289.7	299.0	309.5	318.8	324.7	328.7	329.2	329.6	339.2
75-79	169.2	174.9	180.5	185.6	191.1	196.7	203.5	210.1	217.6	226.3	236.4	244.9
80-84	89.1	91.8	94.9	99.0	103.6	108.4	112.2	115.5	119.5	123.9	129.0	134.2
85-89	42.1	42.8	44.0	44.4	44.8	45.8	47.2	48.6	51.1	54.3	57.7	59.3
90+	19.7	19.7	19.6	19.9	19.9	20.3	20.5	20.7	20.5	20.4	21.5	21.2
<b>Total</b>	<b>11,793.1</b>	<b>11,929.3</b>	<b>12,067.6</b>	<b>12,176.3</b>	<b>12,265.4</b>	<b>12,347.6</b>	<b>12,427.8</b>	<b>12,508.1</b>	<b>12,641.0</b>	<b>12,784.6</b>	<b>12,924.6</b>	<b>13,104.2</b>



APPENDIX A.9 (Continued)

ESTIMATED TOTAL POPULATION BY AGE AND SEX, CANADA, AS OF JUNE 1ST,  
1979 TO 1990

Age	Females (Thousands)													
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990		
0-4	859.8	864.9	868.9	878.1	886.8	891.8	890.3	885.3	890.1	897.6	902.4	917.9		
5-9	881.7	873.9	865.0	863.5	863.0	867.8	871.7	877.5	881.1	890.4	898.0	902.8		
10-14	985.0	952.1	936.3	922.5	911.0	897.7	886.7	872.7	871.7	873.4	881.4	890.4		
15-19	1,162.7	1,157.1	1,132.9	1,090.0	1,038.1	989.9	954.5	942.3	931.0	923.6	913.2	906.6		
20-24	1,133.4	1,149.1	1,169.4	1,174.6	1,177.5	1,173.8	1,158.9	1,124.1	1,088.4	1,045.1	1,006.3	981.6		
25-29	1,038.2	1,069.8	1,093.1	1,121.8	1,143.2	1,156.2	1,165.9	1,178.3	1,184.4	1,191.9	1,194.3	1,190.8		
30-34	940.5	980.3	1,016.9	1,022.6	1,035.1	1,055.0	1,081.3	1,103.2	1,132.9	1,158.4	1,177.2	1,197.8		
35-39	744.2	774.8	807.8	866.0	909.2	947.5	985.0	1,016.0	1,021.7	1,039.9	1,066.1	1,101.3		
40-44	631.5	644.5	663.2	685.1	715.3	744.3	772.4	804.6	863.0	908.3	950.1	993.2		
45-49	624.2	621.2	620.6	619.1	619.8	630.0	640.9	656.6	678.8	710.9	742.0	772.9		
50-54	616.6	619.2	621.8	623.4	622.8	619.6	615.2	613.8	613.2	615.0	626.1	639.3		
55-59	595.8	605.4	611.4	610.2	612.2	609.7	610.2	610.2	612.3	613.6	612.5	610.1		
60-64	485.2	497.6	516.9	540.4	562.8	583.5	591.0	595.1	593.8	596.3	595.0	597.8		
65-69	425.5	442.3	453.7	461.3	463.4	465.4	478.1	497.6	519.6	540.1	559.4	566.7		
70-74	327.2	338.9	352.1	363.4	376.1	390.3	405.1	414.3	422.6	425.9	428.8	442.1		
75-79	233.9	242.6	252.1	262.4	272.1	281.2	290.5	300.6	311.8	324.5	339.2	353.4		
80-84	150.2	155.8	161.8	166.1	172.2	179.8	187.2	194.1	202.9	211.9	219.9	228.0		
85-89	78.7	82.1	86.9	90.8	93.6	96.7	100.1	103.7	107.3	112.4	119.2	123.6		
90+	39.9	41.7	43.2	45.5	47.7	50.2	52.7	55.0	57.4	59.5	62.7	63.5		
<b>Total</b>	<b>11,954.2</b>	<b>12,113.2</b>	<b>12,274.1</b>	<b>12,406.8</b>	<b>12,521.8</b>	<b>12,630.6</b>	<b>12,737.6</b>	<b>12,844.9</b>	<b>12,984.1</b>	<b>13,138.7</b>	<b>13,293.9</b>	<b>13,479.8</b>		



APPENDIX A.9 (Concluded)

ESTIMATED TOTAL POPULATION BY AGE AND SEX, CANADA, AS OF JUNE 1ST, 1979 TO 1990

Age	Total (Thousands)													
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990		
0-4	1,765.4	1,776.0	1,783.3	1,802.2	1,820.3	1,829.8	1,826.8	1,815.9	1,826.9	1,843.0	1,850.0	1,879.6		
5-9	1,811.2	1,795.1	1,777.0	1,772.4	1,770.6	1,781.3	1,789.4	1,800.3	1,807.9	1,826.4	1,840.6	1,851.9		
10-14	2,019.7	1,953.3	1,921.3	1,895.0	1,873.5	1,844.9	1,821.1	1,792.2	1,788.5	1,791.9	1,809.5	1,828.3		
15-19	2,368.4	2,359.2	2,314.9	2,227.0	2,119.2	2,021.0	1,952.2	1,930.4	1,911.6	1,898.6	1,875.2	1,860.4		
20-24	2,272.9	2,305.6	2,343.6	2,356.3	2,364.6	2,360.4	2,329.6	2,257.8	2,192.9	2,112.0	2,041.5	1,998.2		
25-29	2,072.2	2,131.4	2,177.4	2,232.3	2,274.8	2,300.2	2,320.1	2,345.1	2,360.3	2,376.9	2,385.5	2,381.2		
30-34	1,892.1	1,968.8	2,038.1	2,046.0	2,065.7	2,101.1	2,148.2	2,188.4	2,247.8	2,299.7	2,338.4	2,380.1		
35-39	1,502.4	1,564.1	1,629.9	1,744.7	1,828.5	1,900.4	1,970.5	2,028.2	2,036.7	2,068.2	2,116.5	2,184.0		
40-44	1,276.3	1,301.2	1,337.8	1,381.6	1,440.5	1,497.1	1,553.4	1,616.4	1,731.2	1,819.8	1,898.3	1,981.6		
45-49	1,265.6	1,258.1	1,255.3	1,248.9	1,248.3	1,267.1	1,287.4	1,317.4	1,361.4	1,424.6	1,486.0	1,548.9		
50-54	1,221.2	1,232.4	1,243.4	1,250.8	1,251.6	1,245.6	1,235.1	1,230.8	1,226.7	1,228.5	1,249.5	1,275.5		
55-59	1,147.2	1,165.8	1,179.7	1,181.7	1,190.6	1,191.8	1,198.9	1,204.4	1,212.1	1,216.6	1,214.3	1,209.6		
60-64	922.5	944.5	979.2	1,021.9	1,061.9	1,100.9	1,115.6	1,126.0	1,128.4	1,138.6	1,142.1	1,153.0		
65-69	797.8	825.2	844.2	855.6	857.1	857.7	879.3	912.6	953.3	990.4	1,026.9	1,042.4		
70-74	589.5	610.3	633.3	653.0	675.1	699.8	723.9	738.9	751.3	755.1	758.4	781.3		
75-79	403.1	417.5	432.6	448.0	463.2	477.9	494.0	510.7	529.4	550.8	575.6	598.3		
80-84	239.4	247.6	256.8	265.2	275.8	288.2	299.4	309.6	322.4	335.7	348.9	362.2		
85-89	120.9	124.9	130.9	135.2	138.4	142.5	147.3	152.2	158.4	166.7	176.9	183.0		
90+	59.6	61.3	62.8	65.4	67.6	70.4	73.2	75.7	77.9	79.9	84.2	84.6		
<b>Total</b>	<b>23,747.3</b>	<b>24,042.5</b>	<b>24,341.7</b>	<b>24,583.1</b>	<b>24,787.2</b>	<b>24,978.2</b>	<b>25,165.4</b>	<b>25,353.0</b>	<b>25,625.1</b>	<b>25,923.3</b>	<b>26,218.5</b>	<b>26,584.0</b>		



**Appendix B** \_\_\_\_\_  
**TECHNICAL NOTES**





## APPENDIX B - Technical Notes

### Medical Conditions and Diagnostic Categories

All morbidity and mortality data included in this report are based on the 9th Revision of the International Classification of Diseases (ICD-9) which was put into effect in Canada in 1979. The medical conditions included under each three- and four-digit diagnostic category of the 9th Revision follow below.

#### **NATURE OF INJURY:**

##### Nutritional Deficiencies:

###### **Alcoholic Pellagra**

###### **Thiamine and niacin deficiency states**

265.2 Pellagra - Deficiency: niacin-(tryptophan), nicotinamide, nicotinic acid, and Vitamin PP; Pellagra (alcoholic)

##### Mental Disorders:

###### **Alcoholic Psychoses**

- 291.0 Delirium tremens - Alcoholic delirium
- 291.1 Korsakov's psychosis, alcoholic - Alcoholic polyneuritic psychosis
- 291.2 Other alcoholic dementia - Alcoholic dementia; Chronic alcoholic brain syndrome
- 291.3 Other alcoholic hallucinosis
- 291.4 Pathological drunkenness
- 291.5 Alcoholic jealousy - Alcoholic paranoia
- 291.8 Other - Alcohol withdrawal syndrome
- 291.9 Unspecified - Alcoholic: mania, psychosis; Alcoholism (chronic) with psychosis

###### **Drug Psychoses**

- 292.0 Drug withdrawal syndrome
- 292.1 Paranoid and/or hallucinatory states induced by drugs
- 292.2 Pathological drug intoxication
- 292.8 Other
- 292.9 Unspecified

###### **Alcohol Dependence Syndrome**

- 303 Acute drunkenness in alcoholism; Chronic alcoholism; Dipsomania

###### **Drug Dependence**

- 304.0 Morphine type - Heroin; Methadone; Opium; Opium alkaloids and their derivatives; and Synthetics with morphine-like effects
- 304.1 Barbiturate type - Barbiturates; Nonbarbiturate sedatives and tranquilizers with a similar effect: chlordiazepoxide, diazepam, glutethimide, meprobamate
- 304.2 Cocaine - Coca leaves and derivatives
- 304.3 Cannabis - Hemp; Hashish; and Marijuana
- 304.4 Amphetamine type and other psychostimulants - Phenmetrazine; Methylphenidate
- 304.5 Hallucinogens - LSD and derivatives; Mescaline; Psilocybin
- 304.6 Other - Absinthe addiction; Glue sniffing
- 304.7 Combinations of morphine type drug with any other
- 304.8 Combinations excluding morphine type drug
- 304.9 Unspecified - Drug addiction; Drug dependence

## Medical Conditions and Diagnostic Categories (Continued)

### Mental Disorders (Cont'd):

#### **Nondependent Abuse of Alcohol**

305.0 Alcohol - Drunkenness; Excessive drinking of alcohol; "Hangover", inebriety

#### **Nondependent Abuse of Drugs**

305.1 Tobacco - Tobacco dependence

305.2 Cannabis

305.3 Hallucinogens - LSD reaction

305.4 Barbiturates and tranquilizers

305.5 Morphine type

305.6 Cocaine type

305.7 Amphetamine type

305.8 Antidepressants

305.9 Other, mixed or unspecified - "Laxative habit"; Misuse of drugs; Nonprescribed use of drugs or patent medicinals

### Diseases of the Nervous Systems and Sense Organs:

#### **Alcoholic Polyneuropathy**

##### **Inflammatory and toxic neuropathy**

357.5 Alcoholic polyneuropathy

### Diseases of the Circulatory System:

#### **Alcoholic Cardiomyopathy**

##### **Cardiomyopathy**

425.5 Alcoholic cardiomyopathy

### Diseases of the Digestive System:

#### **Alcohol-Related Chronic Liver Disease and Cirrhosis**

571.0 Alcoholic fatty liver

571.1 Acute alcoholic hepatitis

571.2 Alcoholic cirrhosis of liver - Laennec's cirrhosis

571.3 Alcoholic liver damage, unspecified

#### **Specified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol**

571.4 Chronic hepatitis - active, aggressive, persistent; Recurrent hepatitis

571.6 Biliary cirrhosis - Chronic nonsuppurative destructive cholangitis

571.8 Other chronic nonalcoholic liver disease - Chronic yellow atrophy (liver); Fatty liver without mention of alcohol

#### **Unspecified Chronic Liver Disease and Cirrhosis Without Mention of Alcohol**

571.5 Cirrhosis of liver without mention of alcohol - Cirrhosis of liver: cryptogenic, macronodular, micronodular, postnecrotic; Portal cirrhosis

571.9 Unspecified chronic liver disease without mention of alcohol.

#### **Portal Hypertension**

##### **Liver abscess and sequelae of chronic liver disease**

572.3 Portal hypertension

## Medical Conditions and Diagnostic Categories (Continued)

### Complications of Pregnancy, Childbirth, and the Puerperium:

#### **Drug Dependence**

Other current conditions in the mother classifiable elsewhere, but complicating pregnancy, childbirth and the puerperium

648.3 Drug dependence

#### **Suspected Damage to Fetus from Maternal Alcohol Addiction, Listeriosis, Toxoplasmosis**

Known or suspected fetal abnormality affecting management of mother

655.4 Suspected damage to fetus from other disease in the mother - Suspected damage to fetus from maternal: alcohol addiction, listeriosis or toxoplasmosis

#### **Suspected Damage to the Fetus from Drugs**

Known or suspected fetal abnormality affecting management of mother

655.5 Suspected damage to the fetus from drugs

### Certain Conditions Originating in the Perinatal Period:

#### **Noxious Influences Transmitted via Placenta or Breast Milk**

Fetus or newborn affected by maternal conditions which may be unrelated to present pregnancy

760.7 Noxious influences transmitted via placenta or breast milk

#### **Drug Withdrawal Syndrome in Newborn**

Other and ill-defined conditions originating in the perinatal period

779.5 Drug withdrawal syndrome in newborn

### Nonspecific Abnormal Findings:

#### **Excessive Blood Level of Alcohol**

Nonspecific findings on examination of blood

790.3 Excessive blood level of alcohol

### Poisoning by Drugs, Medicaments and Biological Substances:

#### **Analgesics, Antipyretics and Antirheumatics - Opiates and Related Narcotics**

965.0 Opiates and related narcotics - Codeine (methylnorphine); Heroin (diacetylmorphine); Pethidine (meperidine); Methadone; Morphine; Opium (alkaloids)

#### **Analgesics, Antipyretics and Antirheumatics - Salicylates**

965.1 Salicylates - Acetylsalicylic acid (aspirin); Salicylic acid salts

#### **Analgesics, Antipyretics and Antirheumatics - Other**

965.4 Aromatic analgesics, not elsewhere classified - Acetanilide; Paracetamol (acetaminophen); Phenacetin (acetophenetidin)

965.5 Pyrazole derivatives - Aminophenazone (amidopyrine); Phenylbutazone

965.6 Antirheumatics (antiphlogistics) - Indometacin; Gold salts

965.7 Other non-narcotic analgesics - Pyrabital

965.8 Other - Pentazocine

965.9 Unspecified

## Medical Conditions and Diagnostic Categories (Continued)

### Poisoning by Drugs, Medicaments and Biological Substances (Cont'd):

#### **Sedatives and Hypnotics - Barbiturates**

- 967.0 Barbiturates - Amobarbital (amylobarbitone); Barbital (barbitone); Butobarbital (butobarbitone); Pentobarbital (pentobarbitone); Phenobarbital (phenobarbitone); Secobarbital (quinalbarbitone)

#### **Sedatives and Hypnotics - Chloral Hydrate Group**

- 967.1 Chloral hydrate group

#### **Sedatives and Hypnotics - Methaqualone Compounds**

- 967.4 Methaqualone compounds

#### **Sedatives and Hypnotics - Other**

- 967.2 Paraldehyde
- 967.3 Bromide compounds - Bromide; Carbamic esters; Carbromal (derivatives)
- 967.5 Glutethimide group
- 967.6 Mixed sedatives, not elsewhere classified
- 967.8 Other
- 967.9 Unspecified - Sleeping: draught, drug, tablet

#### **Psychotropic Agents - Antidepressants**

- 969.0 Antidepressants - Amitriptyline; Imipramine; Monoamine oxidase inhibitors

#### **Psychotropic Agents - Phenothiazine Tranquillizers**

- 969.1 Phenothiazine-based tranquillizers - Chlorpromazine; Fluphenazine; Prochlorperazine; Promazine

#### **Psychotropic Agents - Benzodiazepine Tranquillizers**

- 969.4 Benzodiazepine-based tranquillizers - Chlordiazepoxide; Diazepam; Flurazepam; Lorazepam; Medazepam; Nitrazepam

#### **Psychotropic Agents - Other Tranquillizers**

- 969.2 Butyrophenone-based tranquillizers - Haloperidol; Spiperone; Trifluoperidol
- 969.3 Other antipsychotics, neuroleptics and major tranquillizers
- 969.5 Other tranquillizers - Hydroxyzine; Meprobamate

#### **Psychotropic Agents - Other**

- 969.6 Psychodysleptics (hallucinogens) - Cannabis (derivatives); Lysergide (LSD); Marihuana (derivatives); Mescaline; Psilocin; Psilocybine
- 969.7 Psychostimulants - Amphetamine; Caffeine
- 969.8 Other psychotropic agents
- 969.9 Unspecified

### Toxic Effects of Substances Chiefly Nonmedicinal as to Source:

#### **Toxic Effect of Alcohol**

- 980.0 Ethyl alcohol
- 980.1 Methyl alcohol
- 980.2 Isopropyl alcohol
- 980.3 Fusel oil - Alcohol: amyl, butyl, propyl
- 980.8 Other
- 980.9 Unspecified



## Medical Conditions and Diagnostic Categories (Continued)

### EXTERNAL CAUSE OF INJURY (Used only in classification of deaths)

#### Accidental Poisoning by Drugs, Medicaments and Biologicals:

##### **Analgesics, Antipyretics, and Antirheumatics - Opiates and Related Narcotics**

E850.0 Opiates and related narcotics - Codeine (methylnorphine); Heroin (diacetylmorphine); Methadone; Morphine; Opium (alkaloids); Pethidine (meperidine)

##### **Analgesics, Antipyretics and Antirheumatics - Salicylates**

E850.1 Salicylates - Acetylsalicylic acid (aspirin); Amino derivatives of salicylic acid; Salicylic acid salts

##### **Analgesics, Antipyretics and Antirheumatics - Other**

E850.2 Aromatic analgesics, not elsewhere classified - Acetanilide; Paracetamol (acetaminophen); Phenacetin (acetophenetidin)

E850.3 Pyrazole derivatives - Aminophenazone (amidopyrine); Phenylbutazone

E850.4 Antirheumatics (antiphlogistics) - Indometacin; Gold salts

E850.5 Other non-narcotic analgesics - Pyrabital

E850.8 Other - Pentazocine

E850.9 Unspecified

##### **Sedatives and Hypnotics - Barbiturates**

E851 Accidental poisoning by barbiturates - Amobarbital (amylobarbitone); Barbitol (barbitone); Pentobarbital (pentobarbitone); Phenobarbital (phenobarbitone); Secobarbital (quinalbarbitone)

##### **Sedatives and Hypnotics - Chloral Hydrate Group**

E852.0 Chloral hydrate group

##### **Sedatives and Hypnotics - Methaqualone Compounds**

E852.3 Methaqualone compounds

##### **Sedatives and Hypnotics - Other**

E852.1 Paraaldehyde

E852.2 Bromine compounds - Bromides; Carbamic esters; Carbromal (derivatives)

E852.4 Glutethimide group

E852.5 Mixed sedatives, not elsewhere classified

E852.8 Other

E852.9 Unspecified - Sleeping: draught, drug, tablet

##### **Psychotropic Agents - Antidepressants**

E854.0 Antidepressants - Amitriptyline; Imipramine; Monoamine oxidase inhibitors;

##### **Psychotropic Agents - Phenothiazine Tranquillizers**

E853.0 Phenothiazine-based tranquillizers - Chlorpromazine; Fluphenazine; Prochlorperazine; Promazine

##### **Psychotropic Agents - Benzodiazepine Tranquillizers**

E853.2 Benzodiazepine based - Chlordiazepoxide; Diazepam; Flurazepam; Lorazepam; Medazepam; Nitrazepam

##### **Psychotropic Agents - Other Tranquillizers and Psychotropic Agents**

E853.1 Butyrophenone-based tranquillizers - Haloperidol; Spiperone; Trifluoperidol

E853.8 Other

E853.9 Unspecified

E854.1 Psychodysleptics (hallucinogens) - Cannabis (derivatives); Lysergide (LSD); Marihuana (derivatives); Mescaline; Psilocin; Psilocybine

E854.2 Psychostimulants - Amphetamine; Caffeine

E854.3 Central nervous system stimulants - Analeptics; Opiate antagonists

## Medical Conditions and Diagnostic Categories (Continued)

### Accidental Poisoning by Drugs, Medicaments and Biologicals (Cont'd):

#### **Accidental poisoning by alcohol**

- E860.0 Alcoholic beverages - Alcohol in preparations intended for consumption
- E860.1 Other and unspecified ethyl alcohol and its products - Denatured alcohol; Ethanol; Grain alcohol
- E860.2 Methyl alcohol - Methanol; Methylated spirit; Wood alcohol
- E860.3 Isopropyl alcohol - Dimethylcarbinol; Isopropanol; Rubbing alcohol substitute; Secondary propyl alcohol
- E860.4 Fusel oil - Fudel oil: amyl, butyl propyl
- E860.8 Other
- E860.9 Unspecified

### Suicide and self-inflicted injury:

#### **Poisoning by Analgesics, Antipyretics and Antirheumatics**

- E950.0 Analgesics, antipyretics and antirheumatics

#### **Poisoning by Sedatives and Hypnotics - Barbiturates**

- E950.1 Barbiturates

#### **Poisoning by Sedatives and Hypnotics - Other**

- E950.2 Other sedatives and hypnotics

#### **Poisoning by Psychotropic Agents - Tranquillizers and Other Psychotropic Agents**

- E950.3 Tranquillizers and other psychotropic agents

### Injury Undetermined Whether Accidentally or Purposely Inflicted:

#### **Poisoning by Analgesics, Antipyretics and Antirheumatics**

- E980.0 Analgesics, antipyretics and antirheumatics

#### **Poisoning by Sedatives and Hypnotics - Barbiturates**

- E980.1 Barbiturates

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- E980.2 Other sedatives and hypnotics

#### **Poisoning by Psychotropic Agents - Tranquillizers and Other Psychotropic Agents**

- E980.3 Tranquillizers and other psychotropic agents

## **Causes of Death Indirectly Due to Alcohol**

For causes of death indirectly due to alcohol, the following diagnostic categories were included:

Neoplasms (140-239)

Diseases of the Circulatory System (390-459)

Diseases of the Respiratory System (460-519)

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## **Medical Conditions and Diagnostic Categories (Continued)**

### **Causes of Death Indirectly Due to Smoking**

For causes of death indirectly due to smoking, the following diagnostic categories were included:

Neoplasms (140-239)

Hypertension Disease (401-405)

Ischaemic Heart Disease (410-414)

Cerebrovascular Disease (430-438)

Chronic bronchitis (491)

Emphysema (492)

Asthma (493)

### **Reference**

World Health Organization, International Classification of Diseases, 1975 Revision, 2 Vols. (Geneva: World Health Organization, 1977).

## Uniform Crime Reporting System

The collection of statistical information related to crime is a result of the Uniform Crime Reporting (UCR) system set up in 1962 as a joint project involving police departments across Canada and Statistics Canada. The goal was the systematic collection of data using a clear set of definitions in order to measure the incidence of crime in Canada. Information is collected from:

- Municipal police forces in urban communities;
- Royal Canadian Mounted Police;
- Ontario Provincial Police;
- Quebec Police Force;
- Royal Newfoundland Constabulary;
- Police of Canadian National and Canadian Pacific Railways; and
- Ports Canada.

More than 99% of the active urban police forces in Canada participate in the UCR system.

Under the UCR system local police detachments are required to submit monthly reports. A direct result of this process is that only criminal events that come to the attention of police departments are actually included. These reports provide 2 main types of data: offences and persons charged in conjunction with offences.

Offences represent the basic element of the UCR system. When police investigate reported incidents they determine whether an actual offence has occurred and then determine the number of legal violations. If a single event involves several violations of the law then police, using a standard rule system, determine and record only the most serious offence (the exception to this rule is violent crimes where the number of offences is determined by the number of victims). This means that many less serious offences are actually undercounted.

Offence data provides no information with regard to the number of persons involved. This information is contained in the persons charged data. Persons charged reflects only the most serious offence that a person is charged with. Thus a person may be charged in conjunction with several offences, but is only counted once. Therefore total persons charged is not the same as the total number of charges laid. In addition, a person is counted on each separate occasion that he/she is charged during the year by police.

## **Reference**

Statistics Canada, Canadian Crime Statistics 1990, (Ottawa: Statistics Canada, Catalogue No. 85-205, 1991)



## Jellinek Formula

There are two common methods available for estimating the number of alcoholics: the Ledermann Formula which is derived from alcohol consumption and the Jellinek Formula which is based on liver cirrhosis mortality. In this report Table I.1. presents calculations using the Jellinek Formula as modified by Popham<sup>1</sup>. The number of alcoholics in a particular area is calculated as:

$$A = (P \times D)/R$$

where:

- A = total alcoholics during a given year
- D = the total number of reported liver cirrhosis deaths
- P = the proportion of liver cirrhosis deaths attributable to alcoholism
- R = the proportion of deaths from liver cirrhosis among all alcoholics

D is taken from the Cause of Deaths reports produced by Statistics Canada and a centred two-year moving average is used to smooth out any short-term fluctuations.

A value of 0.37 is used for P, but the true value of P is subject to temporal variations if the liver cirrhosis mortality rate differs from when the value was originally established. A value of 0.37 for P is likely to be conservative and number of alcoholics computed using this value is likely to be an underestimate.

The value of R is taken as 0.001653 (ie 16.53 per 10,000). This value is based on a study of Ontario data<sup>2</sup>, and similar conditions to those in Ontario were assumed to exist in the other provinces. However, these parameters were derived over 20 years ago and there have been no recent studies to reaffirm their validity.

## References

- <sup>1</sup> R.E. Popham, "The Jellinek Alcoholism Estimation Formula and its Application to Canadian Data", Quart. J. Stud. Alc., 17:559-593, 1956.
- <sup>2</sup> W. Schmidt and J. de Lint, "Estimating the Prevalence of Alcoholism from Alcohol Consumption and Mortality Data", Quart. J. Stud. Alc., 31(4): 957-964, 1970.



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